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SEQUENCE LISTING

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<110> Dillon, Davin C.
    Day, Craig H.
    Jiang, Yuqiu
    Houghton, Raymond L.
    Mitcham, Jennifer L.
    Wang, Tongtong
    McNeill, Patricia D.
    Harlocker, Susan L.
    Bennington, Angela Ann
    Zehentner, Barbara
    Fanger, Gary R.
    Retter, Marc W.
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<120> COMPOSITIONS AND METHODS FOR THE THERAPY AND DIAGNOSIS OF BREAST CANCER

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2.1

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215

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Val Val Leu Ser Trp Val Ser Phe Trp Ile Ser Leu Asp Ser Val Pro 260 265 270

250

220

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Ala 305	Ile	Asp	Val	Tyr	Leu 310	Gly	Ile	Cys	Phe	Ser 315	Phe	Val	Phe	Gly	Ala 320
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Ala	Lys	Asp	Arg 340	Gly	Thr	Thr	Lys	Glu 345	Val	Glu	Glu	Val	Ser 350	Ile	Thr
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<211> 613
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 494, 556
```

```
<223> n = A, T, C or G
<400> 44
ttttttttt tttttttag ttttaaaata ttttcacttt attattatgc ttataatatt 60
attocaacag actgtattaa aggcagtgat cactaacaca gaacacgaca gggcgaagag 120
gcagccgggc cgattgcagg acgtggcctg tcgggccagg gtcgctgaca tgcacgctgg 180
tageteatae aetgetaeee teageaeagg etgeaggaat agggaeaaga eagatgeege 240
cggactetta gaagetattt aataaatate ateeaaaaac aaaatggaaa agaaacaaga 300
aacceteega geacaaceae ettaggeeaa etgaatgtaa tetagtttat teaaceaaaa 360
attgagagag aaggaaaata ttgaaacaaa caaacgaaag aaagcagttc ttaagactag 420
cagtaaataa atttatacaa cagttcggtc tgtataatat gatgaaataa atctacatct 480
tttcttattt tggngctttg aattatacat acaaacaaca attacaggga cttgttcaca 540
aagcatgtag gcctanaaaa aggctctctg aaaccctcaa tggcaactgg tgaacggtaa 600
cactgattgc cca
<210> 45
<211> 334
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 309
<223> n = A, T, C or G
<400> 45
accagaccaa qtgaatqcqa caqqqaatta tttcctqtqt tqataattca tqaaqtagaa 60
cagtataatc aaaatcaatt gtatcatcat tagttttcca ctgcctcaca ctagtgagct 120
gtgccaagta gtagtgtgac acctgtgttg tcatttccca catcacgtaa gagcttccaa 180
ggaaagccaa atcccagatg agtctcagag agggatcaat atgtccatga ttatcaggta 240
tgctgactat ttccaagggg tttttcagtt gcttcatttg cttgtaaagc aggtaatcct 300
cttgttgtnt tttctttttc tcgatgagcc gtgt
                                                                   334
<210> 46
<211> 429
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 9, 392
<223> n = A, T, C \text{ or } G
<400> 46
acaattttnt taaacaagca gaatagcact aggcagaata aaaaattgca cagacgtatg 60
caattttcca agatagcatt ctttaaattc agtattcagc ttccaaagat tggttgccca 120
taatagactt aaacatataa tgatggctaa aaaaaataag tatacgaaaa tgtaaaaaaag 180
gaaatgtaag tccactctca atctcataaa aggtgagagt aaggatgcta aagcaaaata 240
aatgtaggtt ctttttttct atttccgttt atcatgcagt ctgcttcttt gatatgcctt 300
agggttaccc atttaagtta gaggttgtaa tgcaatggtg ggaatgaaaa ttgatcaaat 360
atacaccttg tcatttcatt tcaaattgcg gntggaaact tccaaaaaaa gggtaggcat 420
gaagaaaaa
                                                                   429
```

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<211> 394
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 8, 42
<223> n = A, T, C or G
<400> 47
acgcgaantt gtgttatgac tgatagcctt cagctacaaa angataggac tgacctggtt 60
taaagtgttc tattttgtaa atcattccat ttgagtcttt ctgatgaact tggctatact 120
tgactattaa aaaacataac tttctaggag ctataaatca aagttttaaa aagatgtttg 240
gatatatttg agtattccga tcatgaaaac agaaattgcc ctgcctacta caaggacaga 300
ctgatgggaa attatgcacc tggtcaactt agcttttaag cagacgatgc tgtaaaaaca 360
aacggcttct ctgatattta ttgtaagttt tagt
                                                                394
<210> 48
<211> 486
<212> DNA
<213> Homo sapiens
<400> 48
acaaaggaac cgaggggtga ccacctctga gatgtccttg actttgtcat agcctggggc 60
atattgagca teteteteac agetgeettt ettateecca ttettgatgt agaceteett 120
ccgagtcagc tttttctcct cctcagacac aaacagagct ttgatatcct gtgcagggag 180
cagctcttcc ttttgttgct ggcaagtggt agttggagga agcctcaaag ctcgagttgt 240
teceteggtg caggggagac aaatgggeet gatagtetgg ceatatttea gettattett 300
gagettgate agggeaacgt catagteata aaatteagga attectgett ettttteee 360
attaatgttg tagttggggt gaaataggac tacttctatc tccaggtccc gcttctcccc 420
tcccttgatt gagtgttcct tgtcatccac agtgaaacaa tgtgctgctg tcagcacaaa 480
gtacct
<210> 49
<211> 487
<212> DNA
<213> Homo sapiens
<400> 49
acgggctgac agagaagatt cccgagagta aatcatcttt ccaatccaga ggaacaagca 60
tgtctctctg ccaagatcca tctaaactgg agtgatgtta gcagacccag cttagagttc 120
ttctttcttt cttaagccct ttgctctgga ggaagttctc cagcttcagc tcaactcaca 180
gettetecaa geateaceet gggagtttee tgagggtttt eteataaatg agggetgeae 240
attgcctgtt ctgcttcgaa gtattcaata ccgctcagta ttttaaatga agtgattcta 300
agatttggtt tgggatcaat aggaaagcat atgcagccaa ccaagatgca aatgttttga 360
aatgatatga ccaaaatttt aagtaggaaa gtcacccaaa cacttctgct ttcacttaag 420
tgtctggccc gcaatactgt aggaacaagc atgatcttgt tactgtgata ttttaaatat 480
                                                                487
ccacagt
<210> 50
<211> 460
<212> DNA
<213> Homo sapiens
```

14 4 345

```
<220>
<221> misc feature
<222> 415, 459
<223> n = A, T, C or G
<400> 50
acatattttg gttgaagaca ccagactgaa gtaaacagct gtgcatccaa tttattatag 60
ttttgtaagt aacaatatgt aatcaaactt ctaggtgact tgagagtgga acctcctata 120
tcattattta gcaccgttta tgacagtaac catttcagtg tattgtttat tataccactt 180
atatcaactt atttttcacc aggttaaaat tttaatttct acaaaataac attctgaatc 240
aagcacactg tatgttcagt aggttgaact atgaacactg tcatcaatgt tcagttcaaa 300
agcctgaaag tttagatcta gaagctggta aaaatgacaa tatcaatcac attaggggaa 360
ccattgttgt cttcacttaa tccatttagc actattgaaa ataagcacac caagntatat 420
gactaatata acttgaaaat tttttatact gagggggtng
                                                                   460
<210> 51
<211> 529
<212> DNA
<213> Homo sapiens
<400> 51
acacttgaaa ccaaatttct aaaacttgtt tttcttaaaa aatagttgtt gtaacattaa 60
accataacct aatcagtgtg ttcactatgc ttccacacta gccagtcttc tcacacttct 120
tctggtttca agtctcaagg cctgacagac agaagggctt ggagattttt tttctttaca 180
atteagtett cageaacttg agagetttet teatgttgte aageaacaga getgtatetg 240
caggiticgta agcatagaga cggittigaat atciticcagi qatatcggct ctaactqtca 300
gagatgggtc aacaaacata atcctgggga catactggcc atcaggagaa aggtgtttgt 360
cagttgtttc ataaaccaga ttgaggagga caaactgctc tgccaatttc tggatttctt 420
tattttcagc aaacactttc tttaaagctt gactgtgtgg gcactcatcc aagtgatgaa 480
taaatcatca agggtttgtt gcttgtcttg gatttatata gagcttctt
<210> 52
<211> 379
<212> DNA
<213> Homo sapiens
<400> 52
actttgccaa gcagtaaagg atccaggaga tagcactgga tgtggtgtca tgtcctgcaa 60
acatgaacgt tttcacttca gcctggagat ctgcttcaga gaaatctttg gtgttttcgc 120
ttttggcact caaaagtatg tccagaaaat cccagcgcct tttctgagta gtatcttgtt 180
ttagettate ettaagagae teetteeggt eetggattae tttetetgtg aactgatgaa 240
gttcttggtt aaatttagaa aagatttggc cttgagagct gaatttgaaa accaggtcgt 300
tgtgatgtag aaaattgttc atgcgctggt tggagatttt gctaaggttg aacactgctt 360
tcaggtatga gtccagggt
                                                                   379
<210> 53
<211> 380
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 260, 284, 285, 372, 377
```

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<223> n = A, T, C or G
<400> 53
acttttatct taaaagggtg gtagttttcc ctaaaatact tattatgtaa gggtcattag 60
acaaatgtct tgaagtagac atggaattta tgaatggttc tttatcattt ctcttccccc 120
tttttggcat cctggcttgc ctccagtttt aggtccttta gtttgcttct gtaagcaacg 180
ggaacacctg ctgagggggc tctttccctc atgtatactt caagtaagat caagaatctt 240
ttgtgaaatt atagaaattn actatgtaaa tgcttgatgg aatnntttcc tgctagtgta 300
gcttctgaaa ggcgctttct ccatttattt aaaactaccc atgcaattaa aaggtacctt 360
gccgcgacca cnctaanggc
                                                                   380
<210> 54
<211> 245
<212> DNA
<213> Homo sapiens
<400> 54
gegeggeget teacttette aactteeggt eeggetegee eagegegetg egagtgetgg 60
ccgaggtgca ggagggccgc gcgtggatta atccaaaaga gggatgtaaa gttcacgtgg 120
tetteageae agagegetae aacceagagt etttaettea ggaaggtgag ggaegtttgg 180
ggaaatgttc tgctcgagtg tttttcaaga atcagaaacc cagaccaacc atcaatgtaa 240
cttgt
                                                                   245
<210> 55
<211> 556
<212> DNA
<213> Homo sapiens
<400> 55
acagaagatg aataataatg aaaaactgtg attttttgac tatcacatac attgtgttaa 60
aaaacaggta aatataatga ctattactgt taagaaagac aaggaggaaa actgtttcaa 120
tgttcaggtt taaatactaa gcacaaaaat ataacaaatt ctgtgtctac aataattttt 180
gaagtgtata caagtgcatt gcaaatgagc tctttaaaat ttaaagtcca tttccccttt 240
agccaagcat atgtctacat ttatgatttc tttctcttat tttaaagtct cttctggttt 300
agttttttaa aaagtttcat catggctgtc atcttggaat ctagcctcca gctcaaagct 360
gagacticac gcatacatat teteettiet ggttgeatet teacetagtt teteeaagta 420
ttcagagtta aatagcacaa cttcttttat atgttcactt ttgtccacat gtagtggcag 480
tgctgctgct tcagtaggct ttctcacaca cccttttcct tctttcaaca gcagtcacca 540
aacgttcaca acacaa
                                                                   556
<210> 56
<211> 166
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 36, 37, 58, 113, 118, 131, 133, 162
<223> n = A, T, C or G
<400> 56
atgggccctg attacatcat tatgaactac tcaggnnaac atcccaaata ccgacctngg 60
gaaagacttg gtccgagatg tgttcatcca tacaggctac ctcttccaga gcncaggncc 120
caagagctgc ntnatcacct acctggccca ggtggacccc anaggg
                                                                   166
```

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<210> 57
<211> 475
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 7, 452
<223> n = A, T, C or G
<400> 57
acatecneat gtteeteeaa atgaegtttg gggteetget tgeeaacatt etttattgee 60
agctqttcag gtqtcatctt atcttcttct tctacagcct tattqtaatt cttqqctaat 120
tccaacatct cttttaccac tgattcattg cgtttacaat gttcactgta gtcctgaagt 180
gtcaaacctt ccatccaact cttcttatgc aaatttagca acatcttctg ttccagttca 240
tttttccgat agttaatagt aatggagtaa taatgtctqt ttagtccatg aattaatgcc 300
tggatagatg gcttgtttaa gtgacccaga ttcgaagttg tttgtcttgg ttcatgtcct 360
aagaccatca tattagcatt gatcaatctg aaggcatcaa taacaacctt teettttaca 420
ctctgaatgg gatccacaac cactgccaca gntctctccg ataaggcttc aaagc
<210> 58
<211> 520
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 7, 397
<223> n = A, T, C or G
<400> 58
actgttnatg tgctacttgc atttgtccct cttcctgtgc actaaagacc ccactcactt 60
ccctagtgtt cagcagtgga tgacctctag tcaagacctt tgcactagga tagttaatgt 120
gaaccatggc aactgatcac aacaatgtct ttcagatcag atccatttta tcctccttgt 180
tttacagcaa gggatattaa ttacctatgt tacctttccc tgggactatg aatgtgcaaa 240
attocaatgt toatggtoto tocotttaaa cotatattot accoottta cattatagaa 300
aggaatgctg gaaacccaga gtccttctct tgggactctt aatgtgtatt tctaattatc 360
catgactett aatgtgcata ttttcaattg cetaatngat tteaattgte taagacattt 420
caaatgtcta attggggaga actgagtctt ttatatcaag ctaatatcta gcttttatat 480
caagctaata tcttgacttc tcagcatcat agaagggggt
                                                                   520
<210> 59
<211> 214
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 34, 120, 153, 159, 171, 179, 184, 194, 197
<223> n = A, T, C or G
<400> 59
ctggcaggaa atgcatcaaa agacttaaag gtanagcgta ttacccctcg tcacttgcaa 60
```

```
cttgctattc gtggagatga agaattggat tctctcatca aggctacaat tgctqgtqqn 120
ggtgtcattc cacacatcca caaatctctg atngggaana aaggacaaca naagactgnc 180
taanggatgc ctgnatncct tggaatctca tgac
<210> 60
<211> 360
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 33
<223> n = A, T, C or G
<400> 60
gcatacaaca tggcagcagg gcctcgggaa gangggtagg aggaccgagc agcattctct 60
gtagaggaag acaggaaagg agaccctctt ggcacacatt tatggagggt tgtccctgaa 120
gagaagggca ggtgggagag gttccctgtt acttaagaga aggcaccagt ggcaaagagc 180
acaatgaaga ggatgatgat aaaaacaatc acgcagataa ggacaatcat cttcacgttc 240
ttccaccaga attttcgagc caccttctgc gatgtcgtct tgaagtgctc agatgtggct 300
tecagateet etgtettgtt geggagatgt tecaagtttt eeeceeggge eaggateege 360
<210> 61
<211> 391
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 2, 56, 60, 92, 135, 176, 264, 308, 323, 345, 377, 378
\langle 223 \rangle n = A, T, C or G
<400> 61
tntgggatcg tactcgatta aacagagcca cctttgttcc tgaggcaatg cataantcan 60
catttttcaa tgactgcttc tttttggaag gnttggagat gacttttatc cgcttgctga 120
ggaacacacc aatgncatca ctgttgccat agaacatctt tacagacaac atgaantgct 180
ttegettgte tgagteagat atatacaatg ttttggetgt geaatagtte ttteetteea 240
agtttagctg ctgcatttct tggncactat ttcctatccc aataaatgca cacggttgag 300
actettgnte agaacaacca tenegtteea tttgttettt ttttntette catecaetge 360
ccataagata tacacannga ggtgggcaaa a
                                                                    391
<210> 62
<211> 324
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 223, 291, 302, 304, 316, 317
<223> n = A, T, C or G
<400> 62
acaattttat tttaacagat ttcaagagtc cattttttaa aaaatgagca ataaagaacc 60
```

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totatoagtg agacttotoa ttttatagoa aatacatttt tgcagottaa attttottga 120
attcatatac gcttctgtca tttaaacaaa cttccagaga aaactggtct ctatatattt 180
aagtaacaaa tttgacaaaa tacatattta tacatatata ganctctaat ataaatatta 240
aatttgaaaa aatcaaatgt gaagcagaaa ctgctataca agtatattgt ntaatatcta 300
tntnatacat taaagnnttc cggg
<210> 63
<211> 360
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 6, 7
<223> n = A, T, C or G
<400> 63
acagannect tgaatatgtt gtggtteeet cattatggee etteatteee ttetgtgtta 60
atagtaaagc atgttgccta ataactacaa ccctgaccaa atttgggcct ggatctcatg 120
ggtcacgtgg agttttaaat acgattttta atttacttgg gtaattgagc tgaatcttta 180
gttttcagat tactttttta aacagatagg ctcttagaac aaattattaa aaacataata 240
ccccattgga ggggaatctg gattaactac ccactgttcc caccccccc aacttttgaa 300
aaattttggc catatagaat gcatgaaaaa tcaggtatga tcttatgagg actttatagt 360
<210> 64
<211> 491
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 1, 403, 443, 464
<223> n = A, T, C or G
<400> 64
nctgactgtg atgtccactt gttccctgat ttttacacat catgtcaaag ataacagctg 60
ttcccaccca ccagttcctc taagcacata ctctgctttt ctgtcaacat cccattttgg 120
ggaaaggaaa agtcatattt attcccgcac cccagttttt taacttgttc tcccagttgt 180
ttaatqqtqq qqqqctactq qaqaqqaqaq acaqcaaqtc caccctaact tqttacacaq 300
cacataccac aggttctgga attctcatct tcgaacctag agaaataggt gctataaaca 360
gggaattaag caaaatgctg gatgctatag atcttttaat tgncttaatt ttttttctat 420
tattaaacta caggctgtag atntcttagg tctcacagaa cttntatcat tttaaactga 480
cttgtatatt t
                                                                491
<210> 65
<211> 484
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 319
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```
<223> n = A, T, C or G
<400> 65
accagcacac cggcgccgtc ctggactgcg ccttctacga tccaacgcat gcctggagtg 60
gaggactaga tcatcaattg aaaatgcatg atttgaacac tgatcaagaa aatcttgttg 120
ggacccatga tgcccctatc agatgtgttg aatactgtcc agaagtgaat gtgatggtca 180
ctggaagttg ggatcagaca gctaaactgt gggatcccag aactccttgt aatgctggga 240
ccttctctca gcctgaaaag gtatataccc tctcagtgtc tggagaccgg ctgattgtgg 300
gaacagcagg ccgcagagng ttggtgtggg acttacggaa catgggttac gtgcagcagc 360
gcagggagtc cagcctgaaa taccagactc gctgcatacg agcgtttcca aacaagcagg 420
gttatgtatt aagctctatt gaaggccgag tggcagttga gtatttggac ccaagccctg 480
aggt
                                                                   484
<210> 66
<211> 355
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 1
<223> n = A, T, C or G
<400> 66
ngaagaaagt atgggtggag gtgaaggtaa tcacagagct gctgattctc aaaacagtgg 60
tgaaggaaat acaggtgctg cagaatcttc tttttctcag gaggtttcta gagaacaaca 120
gccatcatca gcatctgaaa gacaggcccc tcgagcacct cagtcaccga gacgcccacc 180
acatecactt ecceeaagae tgaceattea tgeeceaect eaggagttgg gaceaecagt 240
tcagagaatt cagatgaccc gaaggcagtc tgtaggacgt ggccttcagt tgactccagg 300
aataggtggc acgcaacagc atttttttga tgatgaagac agaacagttc caagt
                                                                   355
<210> 67
<211> 417
<212> DNA
<213> Homo sapiens
<400> 67
acgacacccc tcaagaggtg gccgaagctt tcctgtcttc cctgacagag accatagaag 60
gagtcgatgc tgaggatggg cacagcccag gggaacaaca gaagcggaag atcgtcctgg 120
accettcagg etccatgaac atetacetgg tgetagatgg ateagacage attggggeca 180
gcaacttcac aggagccaaa aagtgtctag tcaacttaat tgagaaggtg gcaagttatg 240
gtgtgaagtc aagatatggt ctagtgacat atgccacata ccccaaaatt tgggtcaaag 300
tgtctgaagc agacagcagt aatgcagact gggtcacqaa qcaqctcaat gaaatcaatt 360
atgaagacca caagttgaag tcagggacta acaccaagaa ggccctccag gcagtgt
                                                                   417
<210> 68
<211> 223
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 29
<223> n = A, T, C or G
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```
<400> 68
cacttgcaag cttgcttaca gagacctgnt aaacaaagaa cagacagatt ctataaaatc 60
agttatatca acatataaag gagtgtgatt ttcagtttgt ttttttaagt aaatatgacc 120
aaactgacta aataagaagg caaaacaaaa aattatgctt ccttgacaag gcctttggag 180
taaacaaaat gctttaaggc tcctggtgaa tggggttgca agg
<210> 69
<211> 396
<212> DNA
<213> Homo sapiens
<400> 69
accttttttc tctccaaagg aacagtttct aaagttttct ggggggaaaa aaaacttaca 60
tcaaatttaa accatatgtt aaactgcata ttagttgtgt tacaccaaaa aattgcctca 120
gctgatctac acaagtttca aagtcattaa tgcttgatat aaatttactc aacattaaat 180
tatcttaaat tattaattaa aaaaaaaact ttctaaggaa aaataaacaa atgtagaccg 240
tgattatcaa aggattatta aagaatcttt accaaaaatt tcaaccctac aacctaaaac 300
cgcaaatttc tatttttaaa catcagaaaa taactcttgg ttcattactt atgacccaaa 360
gtttttattt cactattcaa tatctgaaaa gtatca
                                                                   396
<210> 70
<211> 402
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 6, 7, 38, 327, 367
<223> n = A, T, C or G
<400> 70
acccannece acccaggeaa acageteega catgtttngt aagtgagaca agecagtgea 60
agtttttttt ttttttcct ttttctttt tttgtctttt gcttaccttc ttgcttaatg 120
gaattgttat ggctaagcac atagaaggcc aaaaaaggag tttttcaaac ccagcaaatc 180
aagtgcttgg attctgaact gccaaaagaa aactgcactt cccctcttaa gtaaaacgaa 240
atgagtttct taggtaaatg tattcatcag cccagataaa aaaaaaacca gttatgtgag 300
cgttagtcac tgctcatttc caggaanatc aaacaaaata ccagcccagc cagactcaca 360
tgtgggnata tatatataaa gcaagagagc cacacccaca ag
                                                                   402
<210> 71
<211> 385
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 229, 292, 382
<223> n = A, T, C or G
<400> 71
accagtagag agtggcccct gcaggccact tataaacagg aagctctctc ctgagctcac 60
tgatcaacct gcccttggca cagacagaac ctaccagaaa agaacaagta caaaacacta 120
teattatetg tttteteaag acagteecaa atgteettgt gegategeea caaacteagt 180
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5/200

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gattggccca agtcattccc gggtgccata aacagtaact ggtgtgcanc attagaacaa 240
ggggacacgg ccttgattct cttctgagca acatgaactg ggatttctgc cnccccggat 300
ctcggctgcc acctccgaag aagtcgtgac cagccacctc cacagtaaaa gattcctccc 360
gtgagtatga tttggaatgc gncct
                                                                   385
<210> 72
<211> 538
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 326
<223> n = A, T, C or G
<400> 72
caattaatta acagaggtat aattgtctca ctttcagaag tgatcattta tttttattta 60
gcacaggtca taagaaaaat atatagaaaa ataatcaatt tcatatataa aaggattatt 120
tetecacett taattattgg cetateattt gttagtgtta tttggtcata ttattgaact 180
aatgtattat tccattcaaa gtctttctag atttaaaaat gtatgcaaaa gcttaggatt 240
atatcatgtg taactattat agataacatc ctaaaccttc agtttagata tataattgac 300
tgggtgtaat ctcttttgta atctgntttg acagatttct taaattatgt tagcataatc 360
aaggaagatt taccttgaag cactttccaa attgatactt tcaaacttat tttaaagcag 420
tagaacettt tetatgaact aagteacatg caaaacteca acetgtaagt atacataaaa 480
tggacttact tatteetete acetteteea ggeetaggaa tattettete tggageee
<210> 73
<211> 405
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 8, 9, 39
<223> n = A, T, C or G
<400> 73
actttatnna tggaattttc ttctacttgt atccatttnc cggggcttat ggacccattc 60
atactctcca tatttagaat caaaggttcc tttctgaaga gaccttaatt ttaaggtaaa 120
acgtggtcca agttcctgaa ttcccacttt cttttcactc ctgaatatgt atctgtgaaa 180
tctgaagaat atgtaatccc gttgattgtg gaatgtggca acctgccttc cgataaattg 240
aggattatga ggaaagagag atgcaaacat acgtccaatt gaatgaccca gccgtgttgt 300
aaaattattc agaattattt caggtatgtg ttctgtgggg tccttgcctc ttctcttaat 360
ttctttacga agacgaacac tgctcatttt aaaatgagca gttgg
                                                                   405
<210> 74
<211> 498
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 34
<223> n = A, T, C or G
```

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<400> 74
tgagccctgc acctgtttcc tgcaccccct gccnactggt tctatggcca caaggagttt 60
tacccagtaa aggagtttga ggtgtattat aagctgatgg aaaaataccc atgtgctgtt 120
cccttgtggg ttggaccctt tacgatgttc ttcagtgtcc atgacccaga ctatgccaag 180
atteteetga aaagacaaga teecaaaagt getgttagee acaaaateet tgaateetgg 240
gttggtcgag gacttgtgac cctggatggt tctaaatgga aaaagcaccg ccagattgtg 300
aaacctggct tcaacatcag cattctgaaa atattcatca ccatgatgtc tgagagtgtt 360
cggatgatgc tgaacaaatg ggaggaacac attgcccaaa actcacgtct ggagctcttt 420
caacatgtet ecetgatgae eetggaeage ateatgaagt gtgeetteag eeaceaggge 480
agcatccagt tggacagt
<210> 75
<211> 458
<212> DNA
<213> Homo sapiens
<400> 75
agccttgcac atgatactca gattcctcac ccttgcttag gagtaaaaca atatacttta 60
cagggtgata ataatctcca tagttatttg aagtggcttg aaaaaggcaa gattgacttt 120
tatgacattg gataaaatct acaaatcagc cctcgagtta ttcaatgata actgacaaac 180
cattlcacag cttttccagt taaattggag cactgaacgt tcagatgcat accaaattat 300
geatgggtcc taatcacaca tataaggctg gctaccagct ttgacacagc actgttcatc 360
tggccaaaca actgtggtta aaaacacatg taaaatgctt tttaacagct gatactgtat 420
aagacaaagc caagatgcaa aattaggctt tgattggc
<210> 76
<211> 340
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 15, 255, 283
<223> n = A, T, C or G
<400> 76
accttatacc aaaanaatgc ttattccaaa atattttttg tagctagtag ttctttcctt 60
ggaggtaaag aaaatacacc caaactttta attaccagga ttcagaatat ttaagagaac 120
aattttagtt aagaatcaaa tatactgaga ttcaaagagg ggaaaaaaag gaaatattat 180
agaagacaaa ggtcaaactg gcattccaga tctggagcaa ttttgtaaag caggaaaaca 240
actatgacaa tctgnagctt cttagatcat tatagtgaat gtncccattt actataaggg 300
tttttataat ggtgtttcct aaataaagga acataaatgt
<210> 77
<211> 405
<212> DNA
<213> Homo sapiens
<400> 77
actccatttg tggaactcgt gtcggagtct ggtaaacagc cgaatgtctt cctcccctac 60
agtttcctct ccttgcatga gagcagtgat gtcctgatta aaggcattaa ttttatctat 120
caggaagaac atttttcat tttcgtcttc cggtatgtcg acaccatact tttgtagctc 180
```

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ctctgttatt ctctggtgag tctccttgat ttgattttct aacaggggca gagatttaca 240
gatatgtgtg atgagetege tggtaagttt ttetgeeagg cagggaaceg tggeetttee 300
ttcctccagc agatccctga aatatgggtg gttctcaaag aagatcttct ctctctgcag 360
ggcttcggac aggctcagct ggtcctggat ctcctgctgg ccccg
<210> 78
<211> 410
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 8, 10
<223> n = A, T, C or G
<400> 78
acagcagntn tagatggctg caacaacctt cctcctaccc cagcccagaa aatatttctg 60
ccccacccca ggatccggga ccaaaataaa gagcaagcag gccccttca ctgaggtgct 120
gggtagggct cagtgccaca ttactgtgct ttgagaaaga ggaaggggat ttgtttggca 180
ctttaaaaat agaggagtaa gcaggactgg agaggccaga gaagatacca aaattggcag 240
ggagagacca tttggcgcca gtcccctagg agatgggagg agggagatag gtatgagggt 300
aggcgctaag aagagtagga ggggtccact ccaagtggca gggtgctgaa atgggctagg 360
accaacagga cactgactct aggtttatga cctgtccata cccgttccac
<210> 79
<211> 512
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 35, 36, 474, 479
<223> n = A, T, C or G
<400> 79
acagtgaaaa acaaactaat ataaagcatt ccagnngata aaaacctcct caggcttatg 60
gtttgttttc caaggaaatt atgtttcaat gtaaagtttg aaatactcca gacatacatt 120
ccatgtaggt tttgggtgcc aatgttaaaa tttcaaattt tgcatgcaaq gcttagcaaa 180
gaaacactgg cagaattcca gcatttgcaa aattctaagt tttggtgaat attgtaaata 240
ttacaattgg tattagaaag ccatgatgaa tccagaatta agagaaaacc catttcataa 300
atattttgtt tgattaaaaa ataccaggct taccatgttc taaataacac aagaaaatat 360
ctttaaaaaa aaaaggactg caatttaaca gtaatctgta tatctttagc tgccattaaa 420
aaaagaaaaa agaacaacca aaaacaatga aaatgttaca actggtataa agtnacccna 480
tgatgctccc cttacgagaa aacaaaactg tc
                                                                   512
<210> 80
<211> 174
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 42, 49, 66, 68, 143, 152, 162
<223> n = A, T, C or G
```

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<400> 80
tgattcccca gacctcaaat gggctaacac gcttctcttc tncagcagnc ttcctgtccg 60
tgaagntncc ttccagattg gtacatggaa ctgaaaacaa agggagcctc agctggattg 120
aaatctggag catgccacaa agncttgcac tnggcatttt cnagaagaac ccat
<210> 81
<211> 274
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 32, 133, 219, 234, 239, 241, 272
<223> n = A, T, C or G
<400> 81
ttgcaacaag cacattaaat taaggcctgc tngaatttct tcctccccaa tcaggtaaac 60
tttctttgcc aataaagttt gaggaggtgg catttgaaaa tctctttaaa aaagaagtct 120
tcatctattc acnagaaaac tcaaaaataa ttttcattat caacacacaa actaactcaa 180
tctctgcttt aagtttctat tggccaattt ttctgattna tacgagaatt attntcagnt 240
ntagaaaatc ctggtctttg gtcattacaa gntg
                                                                   274
<210> 82
<211> 101
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 25, 26, 44, 74, 75, 84, 87, 101
<223> n = A, T, C or G
<400> 82
atggagaaga tcgaacctga gcctnntgag aattgcctgc tacngcctgg cagccctgcc 60
cgagtggccc agcnncattt cacnagntgg gcatgatttg n
                                                                   101
<210> 83
<211> 182
<212> DNA
<213> Homo sapiens
<400> 83
tattatgggg aaagataact gagaataaag ctatcatgca gatatttgca gagataaaag 60
taatgcagat actgagtgga gttttgatca aactatgctt gaaagccact ctaccactag 120
ttacacaaac caataatttc ccttcgcagt ggaagtcagc ttgagttttt tcaggtgttt 180
                                                                   182
<210> 84
<211> 229
<212> DNA
<213> Homo sapiens
<220>
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<221> misc feature
<222> 163, 191, 203, 222, 223, 228
<223> n = A, T, C or G
<400> 84
actgtttgta gctgcactac aacagattct taccgtctcc acaaaggtca gagattgtaa 60
atggtcaata ctgacttttt ttttattccc ttgactcaag acagctaact tcattttcag 120
aactgtttta aacctttgtg tgctggttta taaaataatg tgngtaatcc ttgttgcttt 180
cctgatacca nactgtttcc cgnggttggt tagaatatat tnngttcng
<210> 85
<211> 500
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 9, 44, 494
<223> n = A, T, C or G
<400> 85
ggggagtang tgatttatta aagcaagacg ttgaaacctt tacnttctgc agtgaagatc 60
agggtgtcat tgaaagacag tggaaaccag gatgaaagtt tttacatgtc acacactaca 120
tttcttcaat attttcacca ggacttccgc aatgaggctt cgtttctgaa gggacatctg 180
atcogagcat ctcttcactc ctaacttggc tgcaacagct tccagagggg catcaaattt 240
ggcaagactt aacttgaaca gaggttcact aatgaagaag aagtctaaca gctcagaaac 300
aagagctggg cagaactcgg cattggcctg gtagcagcag agggccagcg tgaccagcag 360
gagacacacc gacagettea tggtggettg ttttgetgtg ageteagett teacaaacaa 420
tgagtgattt ggactccacc ccaggagcct gtggagctgc agagcccagg gctatttgta 480
cctgcccggg cggncgctcg
                                                                     500
<210> 86
<211> 323
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
\langle 222 \rangle 90, \overline{93}, 132, 180, 266, 270, 275, 279, 305, 316
<223> n = A, T, C \text{ or } G
<400> 86
ccgccagtgt gctggaattc gcccttgccg cccgggcagg tactcagaag tcatttgtta 60
tttacaattg ggtttgtgtg ggatgggatn tanggcggat gagccagtgc ttttgcaatg 120
aagatgcaat antcattgtc ctctcccact gtctcctctt tcctcacccc atggcagctn 180
tcatgaccca ttcccaaagg qtccaccgag tcctgaactc agcttcatca ccaacattcc 240
tcgccttcag ttgaattcaa cactgncaan ggagnagang caaagacttg ggtcagggag 300
agggngggaa acacanaaca aac
                                                                    323
<210> 87
<211> 230
<212> DNA
<213> Homo sapiens
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<400> 87
gcagcattga gccacccct tggcaggcga tacggcagct ctgtgccctt ggccagcatg 60
tggagtggag gagatgctgc ccctgtggtt ggaacatcct ggggtgaccc ccgacccagc 120
ctcgctgggc tgtcccctgt ccctatctct cactctggac ccagggctga catcctaata 180
230
<210> 88
<211> 249
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 31, 199, 244
<223> n = A, T, C or G
<400> 88
atgtgaccag gtctaggtct ggagtttcag nttggacact gagccaagca gacaagcaaa 60
gcaagccagg acacaccatc ctgccccagg cccagcttct ctcctgcctt ccaacgccat 120
ggggagcaat ctcagcccc aactctgcct gatgcccttt atcttgggcc tcttgtctgg 180
aggtgtgacc accactcent ggtetttggc ccggccccat ggatectget etetggaggg 240
ggtntagat
<210> 89
<211> 203
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 36, 42, 166, 167, 187
<223> n = A, T, C or G
<400> 89
tgtttacact gtcaaggatg acaaggaaag tgttcntatc tntgatacca tcatcccage 60
tgttcctcct cccactgacc tgcgattcac caacattggt ccagacacca tgcgtgtcac 120
ctgggctcca ccccatcta ttgatttaac taacttcctg gtgcgnnact cacctgtgaa 180
aaatgangaa gatgttgcag agt
                                                                 203
<210> 90
<211> 455
<212> DNA
<213> Homo sapiens
<400> 90
ctctaagggg gctggcaaca tggctcagca ggcttgcccc agagccatgg caaagaatgg 60
acttgtaatt tgcatcctgg tgatcacctt actcctggac cagaccacca gccacacatc 120
cagattaaaa gccaggaagc acagcaaacg tcgagtgaga gacaaggatg gagatctgaa 180
gactcaaatt gaaaagctct ggacagaagt caatgccttg aaggaaattc aagccctgca 240
gacagtetgt etcegaggea etaaagttea caagaaatge tacettgett cagaaggttt 300
gaagcatttc catgaggcca atgaagactg catttccaaa ggaggaatcc tggttatccc 360
caggaactcc gacgaaatca acgccctcca agactatggt aaaaggagcc tgccaggtgt 420
caatgacttt tggctgggca tcaatgacat ggtca
                                                                 455
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<210> 91
<211> 488
<212> DNA
<213> Homo sapiens
<400> 91
actttgcttg ctcatatgca tgtagtcact ttataagtca ttgtatgtta ttatattccg 60
taggtagatg tgtaacctct tcaccttatt catggctgaa gtcacctctt ggttacagta 120
gcgtagcgtg gccgtgtgca tgtcctttgc gcctgtgacc accaccccaa caaaccatcc 180
agtgacaaac catccagtgg aggtttgtcg ggcaccagcc agcgtagcag ggtcgggaaa 240
ggccacctgt cccactccta cgatacgcta ctataaagag aagacgaaat agtgacataa 300
tatattctat ttttatactc ttcctatttt tgtagtgacc tgtttatgag atgctggttt 360
tetacecaae ggeeetgeag ceageteaeg teeaggttea acceaeaget acttggtttg 420
tgttcttctt catattctaa aaccattcca tttccaagca ctttcagtcc aataggtgta 480
ggaaatag
                                                                   488
<210> 92
<211> 420
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 30, 33, 34, 204, 225, 319, 372, 383, 385, 390, 414, 416, 418
<223> n = A, T, C or G
<400> 92
tctccqqcaq qctctqcccc qqtcqtaqcn aqnnaaccta taatcctqac cttttttqta 60
gacaaccttg gtgctgaggt taactccatc cattgtagtg gcctgtatat caatgggacg 120
attgcatatt tttcctgggt gagctttcca gaggtctgaa attttctccc cacctttagt 180
ctgagatact ttatcatgat cganccactc cgtccactcc acgtnttgaa cccactcact 240
ggacaaagaa acattgaaat attcgccatg ctctgtctgg aacaatttga atacccgggc 300
agcagcagag cctcgatgnc caggatattc aatatggtct tccactgaag atgatggatt 360
teettteaca gntagaaaac ttnenagggn gtetaaatee aaggtgeagg aagngngnge 420
<210> 93
<211> 241
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 11, 53, 168, 197, 231, 237
<223> n = A, T, C or G
<400> 93
accacgaatt ncaacatcca gatccaccac tatcctaatg ggattgtaac tgngaactgt 60
gcccggctcc tgaaagccga ccaccatgca accaacgggg tggtgcacct catcgataag 120
gtcatctcca ccatcaccaa caacatccag cagatcattg agatcganga cacctttgag 180
accetteggg etgetgngge tgeateaggg etcaacaega tgettgaagg naaeggneag 240
                                                                   241
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<211> 395
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 9
<223> n = A, T, C or G
<400> 94
actctattnt aattctgcct ttttatactt aattctaaat ttttcccctc taatttacaa 60
caaattttgt gatttttata agaatctatg cctccccaat tctcagattc ttctcttttc 120
teetttattt etttgettaa atteagtata agetttettg gtattttagg etteatgeae 180
attettatte etaaacacca geagttette agagacetaa aateeagtat aggaataact 240
gtgttagttc ttgaaaaagc attaaagaca tttttccctg aaacatacag aacatgtcat 300
gccaaatctc ttgtttacat aataaactgg taataccggt gaattgcaca tacagatttt 360
atctccaaga tagaataact taaatattaa aacgt
                                                                   395
<210> 95
<211> 304
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 15, 45, 47, 180, 216, 296
<223> n = A, T, C or G
<400> 95
cgaggtacag tgatngctcc ccctgggcaa tacaatacaa gaacngnggg ttttgtcaaa 60
ttggaacaag gaaacagaac cacagaaata aatacattgg ttaacatcag attagttcag 120
gttacttttt tgtaaaagtt aaagtacgag gggacttctg tattatgcta actcaagtan 180
actggaatct cctgttttct ttttttttt taaatnggtt ttaatttttt ttaattggat 240
ctatcttctt ccttaacatt tcagttggag tatgtagcat ttagcaccac tggctnaaac 300
ctqt
<210> 96
<211> 506
<212> DNA
<213> Homo sapiens
<400> 96
acactgtcag cagggactgt aaacacagac agggtcaaag tgttttctct gaacacattg 60
agttggaatc actgtttaga acacacacac ttactttttc tggtctctac cactgctgat 120
attttctcta ggaaatatac ttttacaagt aacaaaaata aaaactctta taaatttcta 180
tttttatctg agttacagaa atgattactg aggaagatta ctcagtaatt tgtttaaaaa 240
gtaataaaat tcaacaaaca tttgctgaat agctactata tgtcaagtgc tgtgcaaggt 300
attacactet qtaattqaat attatteete aaaaaattge acatagtaga acgetatetg 360
ggaagctatt tttttcagtt ttgatatttc tagcttatct acttccaaac taatttttat 420
ttttgctgag actaatctta atcattttct ctaatatggc aaccattata accttaattt 480
attattaacc ataccctaag aagtac
                                                                   506
<210> 97
<211> 241
```

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<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 144, 165, 167, 171, 187, 214, 215, 228, 239
<223> n = A, T, C or G
<400> 97
attitettit taattaetti agaqagetag gqatqeaaat gtttteagti agaaageett 60
tatttacttt tggaaattga acaagaaatg catctgtctt agaaactgga gattatttga 120
tgttaggtaa aacatgtaat tgtntctctg gcaaatttgt atcantnatt ngaaaatgag 180
atattangaa aaaccaattc ttcttaaatc tagnncatct ttctttanaa gaacattana 240
<210> 98
<211> 79
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 9, 20, 22, 24, 33, 48, 54, 61
<223> n = A, T, C \text{ or } G
<400> 98
ggcaaacana cttatgctgn ancngggttt tancaaggtt ttcaaagnaa aaancccatt 60
ngactttatg gaaaatatt
<210> 99
<211> 316
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
\langle 222 \rangle 27, \overline{2}9, 32, 68, 293
<223> n = A, T, C or G
<400> 99
ccacatatgt aaaacccaga aagaccngnt tngcactttc actgagagtt gagtcatctg 60
ggctgtcnac aggtgtctga cgtgtaaact tggaatcaaa ctgacttaca tcctcttcag 120
attgcaacag aggtttaaag gggggctcca cctttcgagc cagaagttct tcccagttaa 180
tgtgtctaaa gaatggatga gcttgaactt ctccagcgtc cccaggacca gctcccagac 240
gagaagcagc atttetttte agcagetttt taagcagate tetggettet tgngtgaggt 300
agggaggcaa attgag
<210> 100
<211> 425
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
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<222> 255
<223> n = A, T, C or G
<400> 100
accgctttca gaaagtttat atgggttatt cttcagcctc tcttttatgc ctttcgacct 60
ctgtttatca accccaaacc aattacgtat ctggaagtta tcaataccgt ggcacaggtc 120
acttttgaca ttttaattta ttactttttg ggaattaaat ccttagtcta catgttggca 180
gcatctttac ttggcctggg tttgcaccca atttctggac attttatagc tgagcattac 240
atgttettaa agggneatga aacttaetea tattatggge etetgaattt aettaeette 300
aatgtgggtt atcataatga acatcatgat ttccccaaca ttcctggaaa aagtcttcca 360
ctggtgagga aaatagcagc tgaatactat gacaacctgc ctcactacaa tttctggata 420
aaagg
                                                                    425
<210> 101
<211> 156
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 141
<223> n = A, T, C \text{ or } G
<400> 101
actgacttgg gaatgtcaaa attctttatt atgatcttcc gagtgttgtc ctgagctttg 60
ttggccctca actgcaggca gagaaccagg agcagggtgg cagggctggc cctgaacagg 120
agctggagca agcgcatgct ngagaaaaca gaaggc
                                                                    156
<210> 102
<211> 230
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 14, 192, 194, 197, 214, 226, 227
<223> n = A, T, C or G
<400> 102
actocaggoo gggnotcagg ttatcaaaag tgcaggagot ctgatcagca tggaccactt 60
cttccaaaga atttccctgc tggccgtttg taggggttgt ggtaattcta taaccagtaa 120
tgtctggggt ggtgctcctc tcccaggaga ctgtgagcac tccagtgtca gggtttgcct 180
ccagatgcaa gntngtnggt ggagacaatg gtgncaccac tttgtnnaca
                                                                    230
<210> 103
<211> 404
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 14, 17, 21, 23
<223> n = A, T, C or G
```

```
<400> 103
actgtgaacc ctgnggnttc nangcgacct acctggagct ggccagtgct gtgaaggagc 60
agtatccggg catcgagatc gagtcqcqcc tcqqqqqcac agqtqccttt qagataqaqa 120
taaatggaca gctggtgttc tccaagctgg agaatggggg ctttccctat qagaaagatc 180
tcattgaggc catccgaaga gccagtaatg gagaaaccct agaaaagatc accaacagcc 240
gtcctccctg cgtcatcctg tgactgcaca ggactctggg ttcctgctct gttctggggt 300
ccaaaccttg gtctcccttt ggtcctgctg ggagctcccc ctgcctcttt cccctactta 360
gctccttagc aaagagaccc tggcctccac tttgcccttt gggt
<210> 104
<211> 404
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 340, 362, 366, 391
<223> n = A, T, C or G
<400> 104
accaggitat ataatagtat aacactgcca aggagcggat tatctcatct tcatcctgta 60
attccagtgt ttgtcacgtg gttgttgaat aaatgaataa agaatgagaa aaccagaagc 120
tctgatacat aatcataatg ataattattt caatgcacaa ctacgggtgg tgctgaacta 180
gaatctatat tttctgaaac tggctcctct aggatctact aatgatttaa atctaaaaga 240
tgaagttagt aaagcatcag aaaaaaaagt gggtattcct acaagtcagg acattctacg 300
tgactataat ataatctcac agaaatttaa cattaatacn ttctaagatt taattcttag 360
antcinggta aacaaagtag ciccigigga natgatiggc atca
<210> 105
<211> 325
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 19, 250, 258, 289
<223> n = A, T, C or G
<400> 105
acagcagaag ccagtctang atggtgtgat tcaatttctg cctctagtat ttctttgtct 60
tgtttttcct tcaatttaga agtgagcatt gtgttctcag ctatcagaac tttaagctgc 120
ccactatatt gagatgccct tttagctaat gattcctctt tcagttttag ggtcatctga 180
agttcagcat tcttttcttt taaaatctta atgtcctcaa agtatttatt ttccttttcc 240
tggtattggn gtttcagngt ggctatttcc agttttagca tggcaattnc ctttttcaac 300
atgcaatttt catgtaagag ataat
                                                                   325
<210> 106
<211> 444
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 13, 165, 312, 347, 384, 387, 396, 398, 419
```

```
<223> n = A, T, C or G
<400> 106
actgtcttca atnctatgcg tgcaggtgtc taccacaggc aaacagtttt ctccccattt 60
tgtagtaatg tgattttcct attagcaaaa agaggtcacc agcccctgta gacttaaggg 120
actcaagtca caggatgggg atttcctctt aatatttttt atttngttgt ttgaactctt 180
gatgcaacat tgtagagcag ggtgttcagg acctgctgtg cccaagggac tgataaagga 240
aaaagctcta tttattcttt ttgtgatttg atgcacagat gaaaaactta acacacaata 300
acagaagttg gncgttaata aatcacatcc taggctttca gcgcttncqt aagcagacqa 360
catcttcagt tttctagctc ttgnagnttc aacacngnaa catcaatgat gcatatgtnc 420
agaatcagtt acaaagacca tccg
                                                                   444
<210> 107
<211> 287
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 12, 15, 23, 169, 184, 231, 248, 263, 286
<223> n = A, T, C \text{ or } G
<400> 107
acctgcactc gnacntcagg cantaggect ccacgtcatg gccaggcact ggcatgggct 60
ccaccacgtg caggcagttg cagtccttct gggatacatt ctggttgtaa atgtgcccac 120
tgatgtttct ataaggtggg acagatgcat ttgcaccgga tatcttcana actcttgttg 180
gctncagctg ggggcaccaa caaacacccg accacagcca ccaaagataa nagcttcatg 240
cttatcangc ttgctgggcc agnaaagccg gacacctaca agcccnc
                                                                   287
<210> 108
<211> 478
<212> DNA
<213> Homo sapiens
<400> 108
acatgtgcaa gaatttggaa aagcagggca ttttccctca tctctcctag agggaatatc 60
acagcatctg tctctactgg tccacactgg actgcagaca atgtcaaaac tctggatttg 120
gaatgcggct gatttccttt cccctttaag gagttttcca agaatttcat aaccatcagt 180
tgttatattt ccagcttcct tgatgtcttt ttctataatt tcatagcagt caatgtaaat 240
cttaacactt tttgaggtca ctacaatatg aaccttgtga aaacttccat aaaataatgt 300
ctttacttct tctgtgtcaa atgtaacagt ttgcacctcg cctcttgtat ccttgttaaa 360
gaatgataac gtcttgctag aaggatctgc aatcactcca acttgtggtt tgtagtctct 420
gtctgtgatt tgccaaattg caaaagggtc actgggagtt tctgggagaa gtctgaat
<210> 109
<211> 361
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 15, 134, 201, 214, 309, 312
<223> n = A, T, C or G
```

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<400> 109
qaatttttct tctanaataa gtattctqtt qacacaqact attqqtaaqa ttttcaacat 60
aaggtaatgc taggactggc ctcctagcat gagttgtgag taaagatctg gtctgttgtt 120
tctccaaaag aagnttctta ctgcttgtct ctcatgagtt ttctgtttct gctttctctt 180
tttcatattg atatatacgg ntttttaaat ggtnattgta attaaatatc tcctcatttt 240
tctcttttag gagatgatgt tgcattttcc tctcaagaaa atgaatatca attgttatct 300
tgcttttgnt gncagctttc ttatgtgcat gaactaattg ctgttgaagc cacatatttt 360
                                                                   361
<210> 110
<211> 305
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 12, 13, 16, 110, 142, 143, 150, 161, 192, 198, 217, 223,
244, 263, 274, 285, 287
<223> n = A, T, C \text{ or } G
<400> 110
acataatgac tnncanagtg aagctgattg gctgcggttc tggagtaaat ataagctctc 60
cgttcctggg aatccgcact acttgagtca cgtgcctggc ctaccaaatn cttgccaaaa 120
ctatgtgcct tatcccacct tnnaatctgn ctcctcattt ntcagctgtt ggatcagaca 180
atgacattcc tntagatntg gcgatcaagc attccanacc tgngccaact gcaaacggtg 240
cctncaagga gaaaacgaag gcnccaccaa atgnaaaaaa tgaangnccc ttgaatgtac 300
taaaa
                                                                   305
<210> 111
<211> 371
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 341, 369
<223> n = A, T, C or G
<400> 111
cgggggccag ccgggggtat tcagccatcg atcaaactca aaacctggaa tgatatccac 60
tctctttttc ttaagctcag ggaaatattc caagtagaag tccagaaagt catcggctaa 120
gatgcttcgg aatttgaatt catgcacata ggccttgaga aaactgtcaa actgatcctg 180
atcacccacc aagtgggcca ggtatgagac aaagcagaaa cctttctcgt agggggtctc 240
attataggtg tcgtccgggt caacgcctgg ttcaatcttc acgcggagct tgttgagtgg 300
gttttcctct ccagtgatgt ccatgtgctg acgcagcaga ncccgccccg ttgcagcctc 360
caagcaggng t
<210> 112
<211> 460
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
```

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<222> 16, 25
<223> n = A, T, C or G
<400> 112
acatettagg tttttnttcc tttantgtga agaggegttt ccaccaacce acagetetge 60
gtcgagtttt tactagattg ctgcaaattt catggaatct ttgctgttgt tcagtggtcc 120
atttattgga gccaaaaatt ctagggcgct agaatgggaa caaggtagtc agccaagcac 180
aaaaacataa caaaacagga aacgccggac agaacagatg gatctagata gtagataatc 240
agaaacacca aagaaaccac acccatgatg gcaggtggaa accaggctct ttctcatcgg 300
aggactttat cagccatcag catcacttct ccccatcctt gcagctgttc ttccagactt 360
gcagtctctg cagccagcag gttgggtgct gcgattacct ccctccgcca tcgtctcggg 420
gatgcagtct ctacaagcgc aggccacctc cccaacgagt
<210> 113
<211> 204
<212> DNA
<213> Homo sapiens
<400> 113
gagaagacag cagagctgct ttccgcctct ttgagaccaa gatcacccaa gtcctgcact 60
tcaccaagga tgtcaaggcc gctgctaatc agatgcgcaa cttcctggtt cgagcctcct 120
gccgccttag cttggaacct gggaaagaat atttgatcat gggtctagat ggggccacct 180
atgacctcga gggacacccc cagt
                                                                    204
<210> 114
<211> 137
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 46, 52, 131
<223> n = A, T, C or G
<400> 114
accgcaagaa atgggacagc aacgtcattg agacttttga catcgnccgc tngacagtca 60
acgctgacgt gggctattac tectggaggt gteccaagee cetgaagaac egtgatgtea 120
tcaccctccg ntccctg
                                                                    137
<210> 115
<211> 278
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 13, 124, 147, 170, 209, 234
<223> n = A, T, C \text{ or } G
<400> 115
gegggegget ttntggacte geteatttac agageatgeg tggtetteac cettggeatg 60
ttctccgccg gcctctcgga cctcaggcac atgcgaatga cccggagtgt ggacaacgtc 120
cagniticities cettiticae caeggangte aacaacetgg getggetgan titatgggget 180
ttgaagggag acgggatcct catcgtcanc aacacagtgg gtgctgcgct tcanaccctg 240
```

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tatatctttg gcatatctgc attactgccc tcggaagc
                                                                      278
<210> 116
<211> 178
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 12, 22, 81, 96, 149, 165, 171, 176, 177
<223> n = A, T, C or G
<400> 116
acaccgtcat angtcaaaag tncagtgctg gccatcttgc atcaaatgtt cttaaggcag 60
tgactggcta tcaaccacag nttctgtctc cccagntgca aacacaggat ccatgcaaca 120
gttctgagac catacactta gaaaccacng ggagatgcgg atcanatgca naactnnc
<210> 117
<211> 360
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 13
<223> n = A, T, C \text{ or } G
<400> 117
actccccaat ggnggattta ttactattaa agaaaccagg gaaaatatta attttaatat 60
tataacaacc tgaaaataat ggaaaagagg tttttgaatt tttttttaa ataaacacct 120
tettaagtge atgagatggt ttgatggttt getgeattaa aggtatttgg geaaacaaaa 180
ttggagggca agtgactgca gttttgagaa tcagttttga ccttgatgat tttttgtttc 240
cactgtggaa ataaatgttt gtaaataagt gtaataaaaa tccctttgca ttctttctgg 300
accttaaatg gtagaggaaa aggctcgtga gccatttgtt tcttttgctg gttatagttg 360
<210> 118
<211> 125
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
\langle 222 \rangle 23, \overline{5}9, 61
<223> n = A, T, C or G
<400> 118
gcgtcgtgct atgaccggac ttngtcttga aaggggatga cagcatggga ggcaatggnt 60
ncacatgtaa accccacact gaaagacaag gcactetete cacagcagee ecaacaacta 120
gccct
                                                                     125
<210> 119
<211> 490
<212> DNA
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<213> Homo sapiens
<222> 1, 104, 110, 117, 128, 142, 144, 157, 161, 223, 230, 247,
465, 484
<223> n = A,T,C or G
nacaaagaaa agcaaaaaga atttacgaag attgtgatct cttattaaat caattgttac 60
tgatcatgaa tgttagttag aaaatgttag gttttaactt aaanaaaatn gtattgngat 120
tttcaatntt atgttgaaat engngtaata teetgangtt ntttteecee cagaagataa 180
agaggataga caacctctta aaatatttt acaatttaat ganaaaaagn ttaaaattct 240
 caatacnaat caaacaattt aaatatttta agaaaaaagg aaaagtagat agtgatactg 300
 agggtaaaaa aaaattgatt caattttatg gtaaaggaaa cccatgcaat titacctaga 360
 cagocttaaa tatgtotggt tttocatotg ctagoattto agacatttta tgttoctott 420
 actcaattga taccaacaga aatatcaact tctggagtct attanatgtg ttgtcacctt 480
 tctnaagctt
 <210> 120
  <211> 361
  <212> DNA
  <213> Homo sapiens
  <220>
  <221> misc_feature
  <222> 142, 167, 307, 347
  <223> n = A, T, C \text{ or } G
  caggtacagt aaaattaaca cttccgttac aggaaatgta tgacgcaaat aatataaaat 60
   taaaaggtga aaaaaaggtg acactggttt cctaagatac aatttactct ttacaaccag 120
   ggtccacagg tccaggctgc anagcgggca tcaggaagca gagcctncca cctgcttctg 180
   ggggacctgg taataaaaat cagcccatga tggcgctatg gcctctcaga caccacacgc 240
   tgcctaaaca cctagagctc tggaaatagt caacaggaga gtgatttcca tgggggaaat 300
   titaaanaag atgcacatgg gacaggcaat agaaagtttg ccaaggntaa atttggtacc 360
   t
   <210> 121
    <211> 405
    <212> DNA
    <213> Homo sapiens
    <220>
    <221> misc_feature
    <222> 15, 360, 380, 393, 398, 401
    <223> n = A, T, C \text{ or } G
    acacaaaacc ttttnacata ttgggggctt accgctccaa attgctactg atcctttaag 60
     ttcacaatat agaatttctt caccaattaa gtaataaccc tcattacaaa taaagtgcat 120
     ctgataacca aactcgtaag teccatttgc agggactgct tggccattta aaggateceg 180
     tatatatgga catgtttctc tataacaggc gtcatctgag acaggtagcc atgtatgatt 240
     ccgatcacaa atagtatggg tggcaagagg aggtatatag aagtatcctt ttttacactt 300
```

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ataatctact cgttcaccaa tctcatagta gggttttggt ttaccaatga gcctccatan 360
cttcaaatgt tgggtggctn ctcacaggca tcnggcanaa ngagt
<210> 122
<211> 152
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 15, 150
<223> n = A, T, C or G
<400> 122
accordate gttgncacag atcgctgtct gcccactcca tcggccattc acttggcagg 60
tgcgattggc agagccccgg agagtgtaac cgtcatagca gtggaaagag atctcatcac 120
tcacattgta gtagggagac cggggccaan ta
                                                                152
<210> 123
<211> 336
<212> DNA
<213> Homo sapiens
<400> 123
acatctgaca tatttatata gcacataaat tagggagtgc tctgacccct gcccgtggag 60
cccaagcact gagcagggag gtgaacgcca gtccagaaag aaggtgctgg agcccctgct 120
ctgtcctctc catcacgggg ctcccctagg gcctccccag gcctccttgg ctcagtccag 180
gtgtctgcag gaggaaggtg ttgtctgcat ttagtgtctg agactgggtt tgaggaggca 240
ccagataaaa ggagatacac ttgcagctat aaagtcagct tcaaacccca gggcttgtaa 300
ttccaagagg agggtgggga ggcgaggcca tagtct
                                                                336
<210> 124
<211> 253
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 248, 253
<223> n = A, T, C or G
<400> 124
ctgcaagagc ccagatcacc cattccgggt tcactccccg cctccccaag tcagcagtcc 60
tagccccaaa ccagcccaga gcagggtctc tctaaagggg acttgagggc ctgagcagga 120
aagactggcc ctctagcttc taccetttgt ccctgtagcc tatacagttt agaatattta 180
aaaaaagntt gtn
                                                                253
<210> 125
<211> 522
<212> DNA
<213> Homo sapiens
<400> 125
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acaactgcaa gtctaagata atgttcattc attcccatca taaatgtaac attctaaata 60
ggtgtcttct gatgtcatct gtcagaattt cttttaaact ttttcttcat cttcaacatt 120
atcaaagttc atccttattc ctcttgcctt gatttcggag agtttccaat ttttcactta 180
ttaaggcagc gattgctttt gcatctctgg tatttatctg ctcttcttga aaatttctct 240
ttgctctttc gtagaaataa aacttaacag ttggataggc cctgatccca gctttctggc 300
atgtctgage ataageetga eagtetaett tteeagettt eaetttteet ttaateatee 360
tagccaagag ctcaaattct ggagcaaaat tctggcaagg tccacaccaa ggagcataga 420
aatcaatcac ccaatgattt ttcccttgta gaactttttc actgaaagtc tgaggtgtta 480
gatctgtgga tacttgaggt aaaaatccta gaccccagat to
<210> 126
<211> 374
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 302
<223> n = A, T, C or G
<400> 126
tttttaagat attaacttta cctttataaa tctttgtgtg aaatgaaaaa aaaaatcaag 60
gcatacaaat ttcattgtgt tctacatttt taaataccat cctttgtctc cgttaaaaga 120
ttttcatcca tttattcaaa aaccttttaa gttcaactgt ccaatttaag acagagtgaa 180
gacatttttg agtatctgaa ctaagcattg tcttgactga aacgaagtaa gaactcaatg 240
agagteettg tgggeeteee aggeatgeet tteegtagat agggaactte atetttgttg 300
gncatcacgc ctgctatgtc taaatgtgcc cacttaggat gagttacgaa ttctttcagg 360
aatgctgcag ctgt
                                                                   374
<210> 127
<211> 130
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 12, 37, 47, 69, 75, 87, 112, 115, 124
<223> n = A, T, C or G
<400> 127
aaagccaaga engecattgg cactgetatg gtaaggneac agggeaneea gggeettetg 60
gcaaaaggng atacnaccag cactatnaac agacaggaca tggttgagag gnagnctaca 120
caantcctaa
                                                                   130
<210> 128
<211> 350
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 14, 16, 24, 146
<223> n = A, T, C or G
```

```
<400> 128
acactgattt ccgntnaaaa gaancatcat ctttaccttg acttttcagg gaattactga 60
actttcttct cagaagatag ggcacagcca ttgccttggc ctcacttgaa gggtctgcat 120
ttgggtcctc tggtctcttg ccaagnttcc cagccactcg agggagaaat atcgggaggt 180
ttgacttcct ccggggcttt cccgagggct tcaccgtgag ccctgcggcc ctcagggctg 240
caatcctgga ttcaatgtct gaaacctcgc tctctgcctg ctggacttct gaggccgtca 300
ctgccactct gtcctccagc tctgacagct cctcatctgt ggcctgttga
<210> 129
<211> 505
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 471
<223> n = A, T, C \text{ or } G
<400> 129
acaataccaa agcttcataa tgctaaagaa aaccaaaaca aaagacaatg gtttacacag 60
ggaaataacc ctaaggcaat atgaaaacag tcataattta ttactgataa agagtaaagg 120
catcetteec atagaggggg ggaatteaca gggaacacta attatateag atgaaceacg 180
gggatagaaa ataggcccat ttttaaaatt cattgagaaa ttattacttt ttctccacaa 240
ctgtgattct atacaaaata taaaccctgc aaaccttatg tgctacctga cagataaaag 300
tagcaggagc cagactettg aagcacttga gactgattte tacaaagtee aggaagagca 360
atgattccag tgtgcagtgc tgatgcatgt gtgagcctaa catgttattc agctctggtt 420
gcagccccat ctacatgggg cccagttagt ttttagggag tcacagatta ngcaggcaac 480
cgaggggcat gatttaaaaa gcaca
<210> 130
<211> 526
<212> DNA
<213> Homo sapiens
<400> 130
acaaaagagc ctgattcttt ttaattccac aaatacctag catctcaaag taacatgtaa 60
acaaacttct atgctgctca atgaatcctt ccaatttcga taataaacta aatagtattg 120
gatctagtat atgactttca tgtgtaagtt atggttctat ccattacttt aacaatatta 180
ctgatgtaac agagaaaaat tttcaactat tgtacttatt taaaacaaac tgacaagttc 240
aagcacctgt cttcagaaaa gccagcagca ttttttttt tttaacatac tcaaagtaag 300
atttggccta agcccttaat acctttctga acagccatgc aactaaacac cctcaggaga 360
tgttacataa gggagagaag aacatggagc aatttgcact ttttccccta gataatatta 420
acaaggtaaa gcaaatccag atctttatga atgaatggct gtcatgttta atacacttgg 480
agetetataa aactagagee aetateatat atgtttatat agatat
<210> 131
<211> 477
<212> DNA
<213> Homo sapiens
<400> 131
ctcagttttc ccagcaacag atgctcctga gcaatttatt agtcaagtga cggtgctgaa 60
atacttttct cattacatgg aggagaacct catggatggt ggagatctgc ctagtgttac 120
tgatattega agacetegge tetaceteet teagtggeta aaatetgata aggeeetaat 180
```

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gatgctcttt aatgatggca cctttcaggt gaatttctac catgatcata caaaaatcat 240
catctgtagc caaaatgaag aataccttct cacctacatc aatgaggata ggatatctac 300
aactttcagg ctgacaactc tgctgatgtc tggctgttca tcagaattaa aaaattgaat 360
ggaatatgcc ctgaacatgc tcttacaaag atgtaactga aagacttttc gaatggaccc 420
tatgggactc ctcttttcca ctgtgagatc tacagggaac ccaaaagaat gatctag
<210> 132
<211> 404
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 10, 15, 19, 24, 87, 125, 140, 355, 390, 399
<223> n = A, T, C or G
<400> 132
accacacgan cgggnatcnt ttgnacatag tgagacccgg ctgattccca tacatgaatc 60
cattcatgga gtgcatttta ttagatncct gaaagtcttc atcttcctta tccacctgat 120
caggngcagt tgtaaacatn cctaatatta tcttccagga gtaaactctc attctcatca 180
aatactgtag gaaacaaata gaatteettg tetacatett tetgteteec atttgeatat 240
aaactteett tettgeatat titeattgge eeaataagee eagtgaatat atetttagtg 300
ggatccacag cagaataata catcttagct agacacacag ggatctgcat tacgngggtc 360
ctacttcttt ggggacagcc cttcatacgn gaatgtttnt gtgg
                                                                   404
<210> 133
<211> 552
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 529
<223> n = A, T, C or G
<400> 133
accccaaatt atctctctcc tgaagtcctc aacaaacaag gacatggctg tgaatcagac 60
atttgggccc tgggctgtgt aatgtataca atgttactag ggaggccccc atttgaaact 120
acaaatctca aagaaactta taggtgcata agggaagcaa ggtatacaat gccgtcctca 180
ttgctggctc ctgccaagca cttaattgct agtatgttgt ccaaaaaccc agaggatcgt 240
cccagtttgg atgacatcat tcgacatgac ttttttttgc agggcttcac tccggacaga 300
ctgtcttcta gctgttgtca tacagttcca gatttccact tatcaagccc agctaagaat 360
ttctttaaga aagcagctgc tgctcttttt ggtggcaaaa aagacaaagc aagatatatt 420
gacacacata atagagtgtc taaagaagat gaagacatct acaagcttag gcatgatttg 480
aaaaaagactt caataactca gcaacccagc aaacacaggg acagatgang agctccacca 540
cctaccacca ca
                                                                   552
<210> 134
<211> 496
<212> DNA
<213> Homo sapiens
<400> 134
acattgatgg gctggagagc agggtggcag cctgttctgc acagaaccaa gaattacaga 60
```

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agacgetaat tgctcaaact tccaacaag ctgcccagac cagcacttgt gttttgattc 180
ttetttttte cetggetete ateateetge ceagetteag tecatteeag agtegaceag 240
aagctgggtc tgaggattac cagcctcacg gagtgacttc cagaaatatc ctgacccaca 300
aggacgtaac agaaaatctg gagacccaag tggtagagtc cagactgacg gagccacctg 360
gagccaagga tgcaaatggc tcaacaagga cactgcttga gaagatggga gggaagccaa 420
gacccagtgg gcgcatccgg tccgtgctgc atgcagatga gatgtgagct ggaacagacc 480
ttttctgggc cacttt
                                                                496
<210> 135
<211> 560
<212> DNA
<213> Homo sapiens
<400> 135
actgggagtg atcactaaca ccatagtaat gtctaatatt cacaggcaga tctgcttggg 60
gaagctagtt atgtgaaagg caaatagagt catacagtag ctcaaaaggc aaccataatt 120
ctctttggtg caggtcttgg gagcgtgatc tagattacac tgcaccattc ccaagttaat 180
cccctgaaaa cttactctca actggagcaa atgaactttg gtcccaaata tccatctttt 240
cagtagcgtt aattatgctc tgtttccaac tgcatttcct ttccaattga attaaagtgt 300
ggcctcgttt ttagtcattt aaaattgttt tctaagtaat tgctgcctct attatggcac 360
ttcaattttg cactgtcttt tgagattcaa gaaaaatttc tattcttttt tttgcatcca 420
attgtgcctg aacttttaaa atatgtaaat gctgccatgt tccaaaccca tcgtcaagtg 480
tgtgtgttta gagctgtgca ccctagaaac aacatattgc ccatgagcag gtgcctgaac 540
acagacccct ttgcattcac
                                                                 560
<210> 136
<211> 424
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 407
<223> n = A, T, C or G
<400> 136
accagcaaat ctccattagc atttctcagg tttcatgatc cttttcagat atgttggttg 60
attttatgta tatattgctt agaaacaaaa atccacctga tattaaaaca aaccaaaaaa 120
aatcataaaa gcaagcaaat gaacaaaaaa ccctagtttt gttgtgcttt tctttcacat 180
ttcctacagg gagatttgta tatctcagat actttcaaaa tctaataggt aagtaaaatt 240
agtgccttaa ccaaacagta agataccaaa gaatcctcca tcacaagtta ctgaatcaaa 300
cttctcatga catttgcggt atattcagat ttgaagattt tttaaattta gaatttaaaa 360
caaactttag actgctgatt ttccatattt caaagactgt agctgtntgc agcatataaa 420
tgga
                                                                424
<210> 137
<211> 392
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 8, 182, 293, 314, 375, 378
```

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<223> n = A, T, C or G
<400> 137
tgcggggntg aaggctagca aaccgagcga tcatgtcgca caaacaaatt tactattcgg 60
acaaatacga cgacgaggag tttgagtatc gacatgtcat gctgcccaag gacatagcca 120
agctgggccc taaaacccat ctgatgtctg aatctgaatg gaggaatctt ggcgatcagc 180
anagtcaggg atgggtccat tatatgatcc atgaaccaga acctcacatc ttgctgttcc 240
ggcgcccact acccaagaaa ccaaagaaat gaagctggca agctactttt cancctcaag 300
ctttacacag ctgnccttac ttcctaacat ctttctgata acattattat gctgccttcc 360
tgttctcact ctganatnta aaagatgttc aa
                                                                    392
<210> 138
<211> 284
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 168, 172, 218, 242, 245, 266, 268, 270
<223> n = A, T, C \text{ or } G
<400> 138
tgcctgtgca cctctttgct tgaaatatgg caagacttgg aaaaatgttt gcccttagaa 60
totatotoac taotttagtt agttgtotoc tttgggcotg ggcacagttc tggccctgat 120
ctggaacaga ctcccttttc taaaactgaa cttgaccaca tcaaaagntt gnaaaacaat 180
ctccatggta attaaacttg cattcaacac catatggnaa cagaagatgg caggaggata 240
anathcagat cttatgatct ttccangnan ggcatgttac atga
                                                                    284
<210> 139
<211> 249
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 23, 28, 33, 67, 68, 81, 161, 168, 175, 183, 217, 248
<223> n = A, T, C or G
<400> 139
gaggaagggg ggactgaatc tancaccntg acngaactag agacagccat gggcatgatc 60
atagacnnet ttaccegata ntegggeage gagggeagea egeagaeeet gaccaagggg 120
gagctcaagg ggctgatgga gaaggagcta ccaggcttcc ngcagagngg aaaanacaag 180
gangccgtgg ataaattgct caaggaccta gacgccnatg gaggatgccc aggtggactc 240
cagcgagnt
                                                                    249
<210> 140
<211> 390
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 26, 27, 35, 41, 96, 319
<223> n = A, T, C or G
```

```
<400> 140
tcataatggt tggggcagct ataatnnact acaanaatca natgtttcac atctagacct 60
cgggcagcaa cagaggtagc cacaagaagt ttgcangtcc cattcttaaa gtcatttatg 120
atgctatete tgtcatattg atcaatgcct ccatgaagag acatgcaagg ataagatgct 180
ctcattaaat ccttaagaag accatcagca tgttcctgct tatccacaaa tataatgaca 240
gatcctgact cttgataatg gcctagaagc tcaagtaact tcaagaattt cttttcttct 300
tcaatcacaa tcacttgtng ctccacatct gagcaaacca cactcctgcc tccaacttgt 360
acctqcccq qqcqqqcqct caaqqqcqaa
<210> 141
<211> 420
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 20, 21, 23, 28, 155, 174, 221, 239, 240, 258, 265, 302, 307,
316, 342, 346, 374, 387, 388, 402, 418
<223> n = A, T, C or G
<400> 141
gacactcagg gaaaagcatn ngncaaanag agcttaaaat gcatcgccaa cggggtcacc 60
tocaaggtot toctogocat toggaggtgo tocactttoc aaaggatgat tgotgaggtg 120
caggaagagt gctacagcaa gctgaatgtg cgcancatcg ccaagcggaa cccngaagcc 180
atcactgagg tcgtgcagct gcccaatcac ttctccaaca natactataa cagacttgnn 240
cgaagcctgc tggaatgnga tgaanacaca gggcagcaca atcaggagac agcctgatgg 300
anaaaantgg gcctancatg gccaggcctc ttccacatcc tngcangaca gaccactgtg 360
cccaaacaca cccnctgagc tgacttnnac aggagacgca cnaaggagcc cggcagangc 420
<210> 142
<211> 371
<212> DNA
<213> Homo sapiens
<400> 142
gggttcgaca atgctgatcc gcaattagaa gacactggta agctgtgtta cactgggctt 60
cattgaaatc ttcaaggata tagccagctc ctgctcgaag ctgggattct gtatactgct 120
tgttgaaagg aggaatttcc aaaaattcct cctcttcttc actgcttcct gtaggaccat 180
ctggcagttt ggagcggctg gccaacttgt cactggttgt ggccatggta aggagaaatg 240
cgtagcccag aaacaaggtc ttgttgagag gcaaaggccc tctctgctct tccagggcag 300
agggttcacc ggtgttgtct ccactctcac aggggctcac aaactctcct gcccctactt 360
gcaccaggtt t
                                                                   371
<210> 143
<211> 270
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 13, 20, 41, 76, 77, 104, 110, 123, 145, 154, 165, 190, 199,
217, 239, 241, 247, 262, 267, 269
```

```
<223> n = A, T, C or G
<400> 143
ggtggctgtg atnacctttn ttagtttaca aataaaaaag ntaaaaagaa atactgtgtt 60
tagggtaagg taacannttc atctaatcag aggagagtga agangaggcn ctgccttcta 120
ggngctgtga cetteteett ttegngatte ttenecacet tgggnaacat etteeeeget 180
atgctggaan tacttcggng ttctgcggtg gccatgntga acatctgatg aactgaaant 240
ncatccnaat gcacacgaag anatagncna
<210> 144
<211> 259
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 28, 167, 223
<223> n = A, T, C or G
<400> 144
ttctctttgc tttttataat tttaaagnaa ataacacatt taactgtatt taagtctgtq 60
caaataatcc ttcagaagaa atatccaaga ttctgtttgc agaggtcatt ttgtctctca 120
aagatgatta aatgagtttg tetteagata aagtgeteet gteeagnaga aeteaaaagg 180
ccttcaagct gttcagtaag tgtaggttca gataagactc cgncatacga attccagctt 240
cccgtgccca ctgtacctc
                                                                   259
<210> 145
<211> 433
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 8, 406
<223> n = A, T, C or G
<400> 145
accacatnta ccatagtgta attagtttta attttcacat gaatcaaagg tttcctttca 60
tgtctattta cagtccaatt gtgccaaact cttacttgtg tgctgactaa caaggcattt 120
aggtgtgcag catcctagag tgctccaggg cagtgtcagc gttctcggga gtaaaaggtg 180
ccacttggta gcaatgatat tccagaatta aatgggtttt tgttgccatg gagactgcat 240
ttatataaat gtagcctgta gcttaagtta actaaaccta atgctgctgt taaaaacagt 300
ttattttaat attaaaatac agttgattag caacagcggt gctgtatttt aagagacact 360
ttattggaag tgcaatcata gttatttgtt ttcacaattt tacagngcat tctaattact 420
gatgggtgca att
                                                                   433
<210> 146
<211> 576
<212> DNA
<213> Homo sapiens
<400> 146
acctcaggcc tgtgcacctc tttgcttgaa atatggcaag acttggaaaa atgtttgccc 60
ttagaateta teteaetaet ttagttagtt gteteetttg ggeetgggea eagttetgge 120
```

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cctgatctgg aacagactcc cttttctaaa actggacctt gaccacatca aaagtttgta 180
aaacaatctc catggtaatt aaacttgcat tcaacaccat atggtaacag aagatggcaa 240
aggataagat tcagatctta gatctttcca agtagggcat gttagatgat agaaggatta 300
gttgcaaget ggatetgage teaggettgg geatgaagga aactgtetee eatgtggttt 360
ggaagagtta ggggctccct gagctctatt gtgaactata cgggtttcat ccaaggaatg 420
gtatgatgtg ggcataaaac cattetteag acaactgaag atggteeeet tetgtageea 480
gaaacactag ctgtcctgca ttgccatttc ctttacccca ggcggcctgc agaaggaaag 540
gccataatta attaaaaggc ttaatgaagt tttgga
                                                                   576
<210> 147
<211> 300
<212> DNA
<213> Homo sapiens
<400> 147
ccagccccca ggaggaaggt gggtctgaat ctagcaccat gacggaacta gagacagcca 60
tgggcatgat catagacgtc tttacccgat attcgggcag cgagggcagc acgcagaccc 120
tgaccaaggg ggagctcaag gtgcttatgg agaaaggagc taccaggctt ctgcagagtg 180
gaaaagacaa ggatgccgtg gataaattgc tcaaggacct agacgccaat ggagatgccc 240
aggtggactt cagtgagttc atcgtgttcg tggctgcaat cacgtctgcc tgtcacaagt 300
<210> 148
<211> 371
<212> DNA
<213> Homo sapiens
<400> 148
acataatcct cataatggtt ggggcagcta taatttacta caagaatcag atgtttcaca 60
tctagacctc gggcagcaac agaggtagcc acaagaagtt tgcaggtccc attcttaaag 120
tcatttatga tgctatctct gtcatattga tcaaatggcc tccatgaaga gacatgcaag 180
gataagatgc tctcattaaa tccttaagaa gaccatcagc atgttcctgc ttatccacaa 240
atataatgac agatcctgac tcttgataat ggcctagaag ctcaagtaac ttcaagaatt 300
tettttette tteaateaca ateaettgtt getecacate tgagcaaace acaeteetge 360
ctccaacttg t
<210> 149
<211> 585
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 10, 30, 32, 527, 565
<223> n = A, T, C \text{ or } G
<400> 149
cgaggtacan cactgctaaa tttgacactn anggaaaagc attcgtcaaa gagagcttaa 60
aatgcatcgc caacggggtc acctccaagg tcttcctcgc cattcggagg tgctccactt 120
tccaaaggat gattgctgag gtgcaggaag agtgctacag caagctgaat gtgtgcagca 180
tcgccaagcg gaaccctgaa gccatcactg aggtcgtcca gctgcccaat cacttctcca 240
acagatacta taacagactt gtccgaagcc tgctggaatg tgatgaagac acagtcagca 300
caatcagaga cagcctgatg gagaaaattg ggcctaacat ggccagcctc ttccacatcc 360
tgcagacaga ccactgtgcc caaacacacc cacgagctga cttcaacagg agacgcacca 420
```

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atgageegea gaagetgaaa gteeteetea ggaaceteeg aggtgaggag gaeteteeet 480
cccacatcaa acgcacatcc catgagagtg cataaccagg gagaggntat tcacaacctc 540
ccaaactagt atcattttag ggggngttga cacaccagtt ttgag
                                                                   585
<210> 150
<211> 642
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 5, 525, 612, 627
<223> n = A, T, C or G
<400> 150
actinegggt tegacaatge tgateegeaa ttagaagaca etggtaaget gtgttacaet 60
gggcttcatt gaaatcttca aggatatagc cagctcctgc tcgaaqctgg gattctgtat 120
actgcttgtt gaaaggagga atttccaaaa attcctcctc ttcttcactg cttcctgtag 180
gaccatctgg cagtttggag cggctggcca acttgtcact ggttgtggcc atggtaagga 240
gaaatgcgta gcccagaaac aaggtcttgt tgaqaqqcaa aggccctctc tgctcttcca 300
gggcagaggg ttcaccggtg ttgtctccac tctcacaggg gctcacaaac tctcctgccc 360
ctactgcacc aggttttact gtggcagact tgcgacctcg cttggcaggg gaccgttcct 420
cttcagaagt gataagtttt cttttgcctg agagaactcc catggaggca cgaggacttt 480
ctgtgatett tegggtaggg gttgtgetge taetggagge agtangggtg getggggage 540
tgacgttact gcgccgtttc cgcttccttc caccaaattg ctaagctgat atctgctgcc 600
tttgtaagaa gnggtactgc ttcatanggg ccaagcccat ac
                                                                   642
<210> 151
<211> 322
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 1, 171, 240
<223> n = A, T, C \text{ or } G
<400> 151
nttggacaac atcttccccg ctatgctgga attacttcgg tgttctgcgg tggccatggt 60
gaacatctga tgaactgaaa ttccatcgga atgcacagga agatatagtt gatcttcaaa 120
aatgtccttt ccaggaccac catactgggg aagttctttc gggtgcctgc naatgggctg 180
caccetgggg etgggeecga getetagete tgteatgeea tegecaetga aateggtttn 240
cagatgatta gtctcttcat gccccgtcca tttttcggtt tttctccagt gttcagaaat 300
tcaaatgatt aacttctggg aa
                                                                   322
<210> 152
<211> 262
<212> DNA
<213> Homo sapiens
<400> 152
acaaagtett etettigett titataatti taaageaaat aacacattia aetgtattia 60
agtctgtgca aataatcctt cagaagaaat atccaagatt ctgtttgcag aggtcatttt 120
gtctctcaaa gatgattaaa tgagtttgtc tttagaataa agtgctcctg tccagcagaa 180
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ctcaaaaggc cttcaagctg ttcagtaagt gtagttcaga taagactccg tcatacgaat 240
tccaqcttcc cqtqcccact qt
<210> 153
<211> 284
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 241, 264, 282
<223> n = A, T, C or G
<400> 153
ctcgggagta aaaggtgcca cttggtagca atgatattcc agaattaaat gggtttttgt 60
tgccatggag actgcattta tataaatgta gcctgtagct taagttaact aaacctaatg 120
ctgctgttaa aaacagttta ttttaatatt aaaatacagt tgattagcaa cagcggtgct 180
gtattttaag agacacttta ttggaagtgc aatcatagtt atttgttttc acaattttac 240
ngtgcattct aattactgat gggngcaatt acttttaatc gngg
                                                                   284
<210> 154
<211> 531
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 525
<223> n = A, T, C or G
<400> 154
acccacccta aatttgaact cttatcaaga ggctgatgaa tctgaccatc aaataggata 60
ggatggacct ttttttgagt tcattgtata aacaaatttt ctgatttgga cttaattccc 120
aaaggattag gtctactcct gctcattcac tctttcaaag ctctgtccac tctaactttt 180
ctccagtgtc atagataggg aattgctcac tgcgtgccta gtctttcttc acttacctgg 240
cetetgatag aaacagttge ceeteteatt teataaggte gaggaettgt gaeeetggat 300
ggttctaaat ggaaaaagca ccgccagatt gtgaaacctg gcttcaacat cagcattctg 360
aaaatattca tcaccatgat gtctgagagt gttcggatga tgctgaacaa atgggaggaa 420
cacattgccc aaaactcacg tctggagctc tttcaacatg tctccctgat gaccctggac 480
agcatcatga agtgtgcctt cagccaccag ggcagcatcc agttngacag t
                                                                   531
<210> 155
<211> 353
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 243
<223> n = A, T, C or G
<400> 155
tcttgacaag actgagagag ttacatgttg ggaaaaaaaa agaagcatta acttagtaga 60
actgaaccag gagcattaag ttctgaaatt ttgaatcatc tctgaaatga agcaggtgta 120
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gcctgccctc tcatcaatcc gtctgggtgc cagaactcaa ggttcagtgg acacatcccc 180
ctgttagaga ccctcatggg ctaggacttt tcatctagga tagattcaag acctttacct 240
canaattatg taaactgtga ttgtgtttta gaaaaattat tatttgctaa aaccatttaa 300
gtctttgtat atgtgtaaat gatcacaaaa atgtatttta taaaatgttc tgt
<210> 156
<211> 169
<212> DNA
 <213> Homo sapiens
 agtttgttct actacatttg tggtccacta gttcactttg ctgtgttgat aagcgttacc 60
 accaattgca ctttctatag cctcttttac aatgttgctc acttcatcaa caacaaaagc 120
 agtetectee geageetggt agtetteeat etttecteeg gegegteee
 <210> 157
 <211> 402
 <212> DNA
  <213> Homo sapiens
  <220>
  <221> misc_feature
  <222> 147
  <223> n = A, T, C \text{ or } G
  gttaactacc cgctccgaga cgggattgat gacgagtcct atgaggccat tttcaagccg 60
  gtcatgtcca aagtaatgga gatgttccag cctagtgcgg tggtcttaca gtgtggctca 120
  gactccctat ctggggatcg gttaggntgc tttaatctac tatcaaagga cacgccaagt 180
  gtgtggaatt tgtcaagagc tttaacctgc ctatgctgat gctgggaggc ggtggttaca 240
  ccattcgtaa cgttgcccgg tgctggacat atgagacagc tgtggccctg gatacggaga 300
   tccctaatga gcttccatac aatgactact ttgaatactt tggaccagat ttcaagctcc 360
   acatcagtcc ttccaacatg actaaccaga acacgaatga gt
   <210> 158
   <211> 546
   <212> DNA
   <213> Homo sapiens
    actttgggct ccagacttca ctgtccttag gcattgaaac catcacctgg tttgcattct 60
    tcatgactga ggttaactta aaacaaaaat ggtaggaaag ctttcctatg cttcgggtaa 120
    gagacaaatt tgcttttgta gaattggtgg ctgagaaagg cagacagggc ctgattaaag 180
    aagacatttg tcaccactag ccaccaagtt aagttgtgga acccaaaggt gacggccatg 240
    gaaacgtaga tcatcagctc tgctaagtag ttaggggaag aaacatattc aaaccagtct 300
    ccaaatggat cctgtggtta cagtgaatga ccactcctgc tttattttc ctgagattgc 360
    cgagaataac atggcactta tactgatggg cagatgacca gatgaacatc atcatcccaa 420
    gaatatggaa ccaccgtgct tgcatcaata gatttttccc tgttatgtag gcattcctgc 480
    catccattgg cacttggctc agcacagtta ggccaacaag gacataatag acaagtccaa 540
     aacagt
     <210> 159
     <211> 145
     <212> DNA
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<213> Homo sapiens
<220>
<221> misc feature
<222> 63, 82, 100, 118, 120, 131, 138
<223> n = A, T, C or G
<400> 159
acttttgcta taagtttcct aaaaatattt aatacttttt tttttcaatt taaattaaat 60
ctnttgatga acagggggg gntggcaaaa tttccaagcn ctggactgga attttganan 120
aggcatttac ngaccctnat aactt
<210> 160
<211> 405
<212> DNA
<213> Homo sapiens
<400> 160
tgtaaatcgc tgtttggatt tcctgatttt ataacagggc ggctggttaa tatctcacac 60
agtttaaaaa atcagcccct aatttctcca tgtttacact tcaatctgca ggcttcttaa 120
agtgacagta tecettaace tgecaceagt gteceeete eggeeeeegt ettgtaaaaa 180
ggggaggaga attagccaaa cactgtaagc ttttaagaaa aacaaagttt taaacgaaat 240
actgctctgt ccagaggctt taaaactggt gcaattacag caaaaaggga ttctgtagct 300
ttaacttgta aaccacatct tttttgcact ttttttataa gcaaaaacgt gccqtttaaa 360
ccactggatc tatctaaatg ccgatttgag ttcgcgacac tatgt
                                                                    405
<210> 161
<211> 443
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 33, 49
<223> n = A, T, C or G
<400> 161
tttgctttta atgaaggaca agggattaag acncatagag actggccana caaatgggaa 60
accgaccaga ccagcccatg accaaaatat cacaggcaga ccacccacaa atgcagaggc 120
ctcagagtcc acagtgggcg gttggaaccc agggccccag ggaatctttc agctgcattc 180
cggctgtgat cggcgggcaa caggtagagg tgctggaggg ggctgagtcg tgattttcgg 240
tgtctgtcat attcgatcaa gtgtgtcata gagcttcctg tttcatctcc cagttattca 300
aggagagget ggtggeteca cetteceagg aactgtgetg tgaagatetg aagacaggea 360
cgggctcagg caccgcttgt ctggaatgtc aatttgaaac ttaaaaagca gcgaccatcc 420
agtcatttat ttccctccat tcc
                                                                    443
<210> 162
<211> 228
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
\langle 222 \rangle 97, \overline{1}47, 162, 174, 186, 213, 218
```

```
<223> n = A, T, C or G
<400> 162
tegttateaa aatggaagae accaaaceat taetggette taagetgaea gaaaaggagg 60
aagaaatcgt ggactagtgg agtaaatttt atgcttnctc aggggaacat gaaaaatgcg 120
gacagtatat tcagaaaggc tattccnagc tcaagatata tnattgtgaa ctanaaaata 180
tagcanaatt tgagggcctg acagacttct canatacntt caagttgt
<210> 163
<211> 580
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 225, 250, 364
<223> n = A, T, C or G
<400> 163
acccaaggct acacatectt etgtgaaaca gteteaegga gaeteteaga ateccaagaa 60
ttttcttcaa ccttcttttg ttttgattct gaagggaaca tctgatctgc tctcaatgtt 120
tgttcattct tcaattccaa ggctttattt ggaacagact ttgcatttca atggcaggct 180
cgaaggcaga tggcttctcg ggaggctctg ctttgaaagt ttgcntgtcc atcaattcta 240
aggetttagn tggaatagaa aettteatte tgeagggage etteagaaaa eeateattat 300
caggagactc ttctaatttt ccatttattt tatctatttc tttttgatgc gcagccttgg 360
gtanacacac atcettetgt gaaacagtet cacagagact etcagaatee caagaacttt 420
cttcatagtc cttttgtttg gattctgatg ggagtatctc atctgctctc aatgtttgtt 480
cattetteaa tteeaagget ttatttggaa cagaettttg cattteaatg geaggetega 540
aggcagatgg cttctcggga ggctctgctt tgaaaagttg
<210> 164
<211> 140
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 16, 79, 107, 109, 116, 125, 136, 140
<223> n = A, T, C or G
<400> 164
acttatatet titggnettg ggetteteaa agiteaegae agaeatagge acteteaeag 60
tatcaagece atttacegne aceteacace aatactegee ecacegngng ataggntetg 120
ctggnaactt taatgnatgn
                                                                   140
<210> 165
<211> 370
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 156, 157, 227, 232, 260, 283, 290, 299, 304, 310, 331, 338,
346, 353
```

```
<223> n = A, T, C \text{ or } G
acatggagcc actgccacca gtggtgatgg aaagcactgc cttcttactc cggaagggtc 60
ctttgtcata catggcagcg taagtgtaag caaactctcc tatgaacact cgctcaaacc 120
agcetttcag aatggcaggg actccaaacc actgennggg ggaactggaa tatcacaagg 180
tctgcggctt ccagcttctt ttgttcagcc acaatatctg ggctcanatg gncttcttta 240
taagccagaa cagactcggn aggatactga aagttcgcag ggnccttcan tttacctgng 300
atgneetttn tggaaatgat gggattgaag nteatggnat aaaggneega etneaceace 360
 tccattcttt
 <210> 166
 <211> 258
 <212> DNA
 <213> Homo sapiens
 gtcaaaagtc atgattttta tcttagttct tcattactgc attgaaaagg aaaacctgtc 60
 tgagaaaatg cctgacagtt taatttaaaa ctatggtgta agtctttgac aagaaaaaaa 120
  aacaaacaaa cacttette cateagtaac actggcaate tteetgttaa ceaeteteet 180
  tagggatggt atctgaaaca acaatggtca ccctcttgag attcgtttta agtgtaattc 240
  cataatgagc agaggtgt
  <210> 167
  <211> 345
  <212> DNA
  <213> Homo sapiens
   <222> 44, 106, 113, 115, 133, 147, 149, 181, 186, 188, 229, 230,
   242, 277, 291, 315, 317, 335, 337
   <223> n = A,T,C \text{ or } G
   ggtcagccaa acacccagga tctctgtaaa actgaagaac aggncaatgc caccaacaaa 60
   teteaaaace tetecageat attetectat gattggagea catggngage acnantggte 120
   acttttaaca canctagcca gacaggngnc atttgggtta acacttcgga acccacagca 180
   ntttanantt ctctggatgt catttcgagc acttgtattt attggtcann tttctgtatc 240
    tngcgcttgg ttagccctga accaggagca acagggncag cttctggagg ntggttggaa 300
    caatacggca agtgntngaa atgacatcca acctncngaa atgac
    <210> 168
    <211> 61
    <212> DNA
    <213> Homo sapiens
     gatagtgtgg tttatggact gaggtcaaaa tctaagaagt ttcgcagacc tgacatccag 60
     t
     <210> 169
     <211> 344
     <212> DNA
```

-1

```
<213> Homo sapiens
<400> 169
acattggtgc tataaatata aatgctactt atgaagcatg aaattaagct tcttttttct 60
tcaagttttt tctcttgtct agcaatctgt taggcttctg aaccaagacc aaatgtttac 120
gttcctctgc tgcataccaa cgttactcca aacaataaaa aatctatcat ttctgctctg 180
tgctgaggaa tggaaaatga aacccccacc ccctgacccc taggactata cagtggaaac 240
tgttcattgc tgatgaatgc agcagtcacc aaaaaataca cccaatcttc cagataacct 300
cagtgcactt taggaaatca aaaattacct ggaagcaatt tagt
<210> 170
<211> 114
<212> DNA
<213> Homo sapiens
<400> 170
agcagtgtgt cctccatgaa taaacaggag ttctggaggc ccatcttctg catcttctgc 60
tgattgttct tccccaattt tacttaaatc ccacacattc aggcggcggt cagt
<210> 171
<211> 150
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 79, 107
<223> n = A, T, C or G
<400> 171
actgagagca tttataatct gaccaaattc ataggcatta ttaggcttgg ctatcggaag 60
tttctcaggg tcttctggng acctgctgct tttgcctccc ttctcanaag caaggcatcc 120
catggagacc tcccctgcag ggcttccagg
<210> 172
<211> 435
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 406
<223> n = A, T, C or G
<400> 172
atttgttttc cactgcctca cactagtgag ctgtgccaag tagtagtgtg acacctgtgt 60
tgtcatttcc cacatcacgt aagagettcc aaggaaagcc aaatcccaga tgagtctcag 120
agagggatca atatgtccat gattatcttc tggtttaggt ctacagtcaa tgtgatggtg 180
gtctttgctt cccagtctgc cagaatatct ttgtgcttct ctaatcattg gctttaaagc 240
taatcaatgt gttggcagca tctctgtcac tcttgtttaa cacgtgaaga aatcaggtag 300
atttttttct gtggcattgt tttcggacct aaaatcaggt atgctgacta tttccaaggg 360
gtttttcagt tgcttcattt gcttgtaaag cagggaatcc tcttgntgct tttcttttc 420
tcgatgagcc cgtgt
                                                                   435
```

```
<210> 173
<211> 622
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 5
<223> n = A, T, C or G
<400> 173
actgntttcc cccaagtcca tgacatgtat acataattaa tggtttgcct ccttgattgt 60
tttctccaac atccagacat agaggctgac caacgctttt aatgtatcca gatataacag 120
gattaaggtc tggcacatac acctctggat aaatgttgtt cagataccat gtaaaatttt 180
tacactgaag gcggtgtttt atttcaaatc tttttgaaag atcaccaaat gctttttgtt 240
taacaatttt tgctgcatct gtatttctcc tataaaatat ttccttgtat tcatccatcc 300
agacttctgc aaggcgaact tggtttctag caatcacctg agtgcctttt ggaaagctat 360
gagggetttt getgegaaaa acatgteeaa caacagagea aggeataate teeaactgee 420
caccacattg ccatactctg aaagacattt ctatattttc acctccccag atttccattt 480
cttcatcata gcttccaata tactcaaaat attcttttga tatggaaaaa agtcctcctg 540
caaaagtggg tgttttaatt gggtagggtt catctttcct tctttgcttc tcatgatcag 600
gaagcgactt ccacccaatg aa
<210> 174
<211> 362
<212> DNA
<213> Homo sapiens
<400> 174
acggtgcagt tgacccactg ttggctctcc ttgcagttcc tgatatgtca tctttagcat 60
gtggctactt acgtaatctt acctggacac tttctaatct ttgccgcaac aagaatcctg 120
cacccccgat agatgctgtt gagcagattc ttcctacctt agttcagctc ctgcatcatq 180
atgatecaga agtgttagea gatacetget gggetattte etacettaet gatggteeaa 240
atgaacgaat tggcatggtg gtgaaaacag gagttgtgcc ccaacttgtg aagcttctag 300
gagettetga attgecaatt gtgaeteetg eectaagage catagggaat attgteactg 360
qt
                                                                   362
<210> 175
<211> 486
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 5, 7
<223> n = A, T, C or G
<400> 175
acagnincic tactacacic agecictat gigccaagit titcittaag caatgagaaa 60
ttgctcatgt tcttcatctt ctcaaatcat cagaggccga agaaaaacac tttggctgtg 120
tctaaaactt gacacagtca atagaatgaa gaaaattaga gtagttatgt gattatttca 180
getettgace tgteceetet ggetgeetet gagtetgaat eteceaaaga gagaaaceaa 240
tttctaagag gactggattg cagaagactc ggggacaaca tttgatccaa gatcttaaat 300
gttatattga taaccatgct cagcaatgag ctattagatt cattttggga aatctccata 360
```

```
atttcaattt gtaaactttg ttaagacctg tctacattgt tatatgtgtg tgacttgagt 420
aatgttatca acgtttttgt aaatatttac tatgtttttc tattagctaa attccaacaa 480
<210> 176
<211> 461
<212> DNA
<213> Homo sapiens
 accetggcca etectteet titggetgge caatgtetee tetgtagget ecagaagget 60
 ctcagggatg caggcggcct cctgcagggt tgagttgcaa tgggaacaaa gacagctgtg 120
 gtcccatagc accetcatet ggtgacatec tgctactgac agtcaaaaga agcettccca 180
 gatgaaattt tagteetetg egeageeatg etettettee ageaaaagag eeatgtgeag 240
 togggtctgc tocccatggg ggctttgatg tgggcccagc agtggatcag ccttccagac 300
 acgetcaact etgeacacte tteetgeege etcaggettt ecaggaccet ecegageett 360
 atcagagtcc ttaccctcag ggctactgat accttgctgg gtgaccttgg acagattcac 420
 ttacctggac tcagtttcat aatatgaaaa tgatagggtt g
  <210> 177
  <211> 234
  <212> DNA
  <213> Homo sapiens
  acacattttg taattacctt ttttgttgtt ttgtagcaac catttgtaaa acattccaaa 60
  taattccaca gtcctgaagc agcaatcgaa tccctttctc acttttggaa ggtgactttt 120
  caccttaatg catattcccc tetecataga ggagaggaaa aggtgtaggc etgeettacc 180
  gagagccaaa cagagcccag ggagactccg ctgtgggaaa cctcattgtt ctgt
   <210> 178
   <211> 657
   <212> DNA
   <213> Homo sapiens
   <220>
    <221> misc feature
    <222> 10, 38, 42, 56, 58, 71, 77, 109
    <223> n = A, T, C \text{ or } G
    gageteggan ecetagtaac ggeegeeagg gtgetggnat gngeeettge gagegngneg 60
    cccgggcagg nacttinate ecccctcate tteetgtage teatttgtnt eteteattt 120
    ttggcatatt tttcaagtca cacttaaaaa ctcttccatg tattcacttc tcatcacttg 180
    gtctacatgc cgaacctaag gtcaggattc caaaaagatg agtatcctct caaacgcctc 240
    ctaagcctct ggtatacatg actttggctg tgcacttcat ttagacttca cctttttgtt 300
    tgctgttgtt ttttacacta gattcctttg tcttcattaa agataatgaa agattcacat 360
     cacagtgcag ctcttcgctt tgtcctttcg taagtccgta gcaactgccg agagttctgg 420
     totgotaggo atgtgtgaaa toogotttgt ggotototgt gatttgttoo gottaacgtt 480
     tttatttgtc ttatttacac atgccaaggt ggcaacgtga aaaatgtctc tgacgctatt 540
     ttccgactgt aaagctgagc attcgatata agtagctgct ccaatctgtt tggccatact 600
     tgccccctgg tcataggaca ctggcgtctg cctgtgattg gagagctcta ctaatgt
```

<210> 179

'n,

```
<211> 182
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 7
<223> n = A, T, C \text{ or } G
<400> 179
acaaaanctt ttaaatttta tattattttg aaactttgct ttgggtttgt ggcaccctgg 60
ccaccccatc tggctgtgac agcctctgca gtccgtgggc tggcagtttg ttgatctttt 120
aagttteett eectaeeeag teeceatttt etggtaaggt ttetaggagg tetgttaggt 180
gt
                                                                   182
<210> 180
<211> 525
<212> DNA
<213> Homo sapiens
<400> 180
acacgetttt ggeecegace aatgaggeet tegagaagat eeetagtgag actttgaace 60
gtatcctggg cgacccagaa gccctgagag acctgctgaa caaccacatc ttgaagtcag 120
ctatgtgtgc tgaagccatc gttgcggggc tgtctgtaga gaccctggag ggcatgacac 180
tggaggtggg ctgcagcggg gacatgctca ctatcaacgg gaaggcgatc atctccaata 240
aagacateet agecaceaac ggggtgatee actacattga tgagetaete ateceagaet 300
cagecaagac actatttgaa ttggetgeag agtetgatgt gteeacagec attgaeettt 360
teagacaage eggeetegge aateatetet etggaagtga geggttgace eteetggete 420
ccctgaattc tgtattcaaa gatggaaccc ctccaattga tgcccataca aggaatttgc 480
ttcggaacca cataattaaa gaccagctgg cctctaagta tctgt
                                                                   525
<210> 181
<211> 444
<212> DNA
<213> Homo sapiens
<400> 181
acaccacaat gtgcatcaag gagacgtgcc gattgattcc tgcagtcccg tccatttcca 60
gagateteag caageeactt acetteeeag atggatgeae attgeetgea gggateaeeg 120
tggttcttag tatttggggt cttcaccaca atcctgctgt ctggaaaaac ccaaaggtct 180
ctgacccctt gaggttctct caggagaatt ctgatcagag acacccctat gcctacttac 240
catteteage tggateaagg aactgeattg ggeaggagtt tgeeatgatt gagttaaagg 300
taaccattgc cttgattctg ctccacttca gagtgactcc agaccccacc aggcctctta 360
ctttccccaa ccattttatc ctcaagccca agaatgggat gtatttgcac ctgaagaaac 420
tctctgaatg ttagatctca gggt
                                                                   444
<210> 182
<211> 441
<212> DNA
<213> Homo sapiens
<400> 182
acaaccttta ttgcttctcc agcattttcc agaagaatgg tgtcattaga gggccacagg 60
ggatggggga gtaaaaaata acataaacga actgaacaga aatgcaggag ggtggcaaga 120
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```
ggggccgaga ttgggtgttc agggcagaga ggtggaagac caggggcagt cagtgcttct 180
tagettteag ceaceagagt ggagaatteg teaaceceaa ttttgeegte eccatetttg 240
tctccagcag ccatcagcat cttggtttct ttagcagaca ggtctctggc atctggggag 300
aagcetttta ggatgaatee cageteatee teetegatga agceaetttg teettgteea 360
gcatgtgaaa caccttcttc acatcatccg cactcttttt cttcaggccg accatttgga 420
agaacttttt gtggtcgaag g
                                                                   441
<210> 183
<211> 339
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 4, 10, 58, 67, 168, 210, 226, 228, 232, 238, 239, 289, 292,
297, 302, 304, 323
<223> n = A, T, C or G
<400> 183
tgtntcatcn taaggggatt gggctctaga tctgtcgacg gcgcattgag gatttgcnat 60
cggttangtg gtccgcgagt catgaatttt tgctctggag cgttattgtt tgtgaagttt 120
atccaggaga gaactatgat tgtgtcgatg cgtttactgc aggaagantc acggtctcag 180
tcacqqaqqt qtaaqqqtqq actqactqan tqaqacaaqq qatatntnqt tnttatannc 240
ttgtgatgaa cctgcctacc gtttatgtct ctttgctaat gggctctcng tnctgtnatt 300
cncncaagct gcgggggctt ccncggttct gggctctga
                                                                   339
<210> 184
<211> 490
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 78, 82, 109, 126, 129, 133, 159, 193, 195, 235, 244, 245,
284, 292, 296, 318, 320, 372, 389, 391, 397, 418, 437, 455,
468, 483, 488
<223> n = A, T, C or G
<400> 184
atatagcaag cttgtacgac cgacacatac ggcgcattgt gctggattgc ttatcttgtc 60
gcgcgacgtc tatataancg anactacata gtctcggaaa tccactcant ttcaagttcc 120
caaaanacng ganaaaaacc catgccttat ttaactaanc atcagctcgc ttctccttct 180
gtaaccgcgc ttntngctcc cagcctatag aagggtaaaa cccacactcg tgcgncagtc 240
atennataac tgattegeec gggtactgec gggeggeget eganaceaat tngcanaatt 300
cacacattgc ggcgctcnan aagctctaga aggccaatcg ccatattgat ctatacatta 360
tggccgtcgt tnacacgtcg tgacgggana ncctggngta ccattaatcg ctgcacantc 420
ccttcgcagc tggggtntac aaaagccgcc catcnetcca cgttgcgncc gatggcaagg 480
acnccctnat
                                                                   490
<210> 185
<211> 368
<212> DNA
<213> Homo sapiens
```

```
<222> 3, 4, 6, 13, 41, 93, 145, 159, 160, 165, 243, 302, 313, 327,
333, 350, 355
<223> n = A,T,C \text{ or } G
ctnnanatag cangettgta egacegacae aataeggeea ntgtgetgga ttegetteag 60
cgccgcccgg gcagtaccgg cgctcatcta tcngatgatg gcgcaccaat gtggggtttt 120
aaccttttta tatggctggg gacanaaagc gcggttacnn aaccnataac gagctgatgg 180
tcatttaaaa atgcttgggg ttttcccggt cttttgggga attgaaactg agtgggactt 240
 canaaactgt gctactttcg cttatctaag tactcggccg caacacctag ccgaatccgc 300
 anatatcate aenetgggeg gegteaneat gentetaaag ggeeaatten eetanatgag 360
 tcttatac
 <210> 186
 <211> 214
 <212> DNA
 <213> Homo sapiens
  <220>
  <222> 1, 37, 38, 59, 90, 98, 105, 107, 113, 181, 183, 192
  <223> n = A,T,C \text{ or } G
  ngggagatcg cagcttgtac gactcgtcat ataacgnnca atgtgctgga tcgcttcanc 60
  geogeoggeg gtetaatetg gtteggattn tgtgtgtntt gtetntntta canggtgeta 120
  tecectett ectectecte tgecatecte atectttate tectttttgg acaagtgtea 180
   nancagacag angcagggtg gtggcaccgt tgaa
   <210> 187
   <211> 630
   <212> DNA
   <213> Homo sapiens
   <222> 39, 63, 70, 111, 116, 199, 205, 209, 268, 277, 442, 448,
    492, 511, 514, 520, 545, 546, 555, 596, 608, 611, 620
    <223> n = A, T, C \text{ or } G
    cagctgggac gagtcgatca tatacggcgc atgtgttgna tcgctatcgt gtccggcgag 60
    tanttattan attactgtta tttctgctcc tactggatat gatctcttga nggcangtct 120
    gtgtcgtctg gtcacaccat gttctcaggc tgggcaaata ccttcctata atagtttatg 180
    gataatgaat gacgactang tetanaaana egetagetaa ataacacact cagggaaaga 240
    gtcttaaata ttgtgaaggt gtttttanta tacaacnttt gtttacataa taggaaataa 300
    tttttagact tttaaacaga cacttgagcc agatttgtta atgttaccat ctatagtgtc 360
    ttgaaaatat tcctcttagt ttccaatatg aatgaatcta aaatccatct tttcaattat 420
     gcccaggccc gtggtcaatg encectenae actteattaa eggattatae ettgggaaac 480
     cataatctgg cntaggacga atcgcctggc ncangctaan aactgccctg tattgagggg 540
     ttatnnctga ttgcngaggt gcctctccag gtccccaaag ggtcgtactg ttgaanctgg 600
     ctctaatntt ntcttgcctn acaggtctcc
```

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<210> 188
<211> 441
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 2, 3, 8, 12, 25, 31, 34, 43, 74, 76, 105, 106, 122, 158,
204, 205, 224, 225, 230, 236, 260, 261, 270, 278, 288, 289,
297, 335, 376, 388, 397, 398, 415, 427, 432, 438
<223> n = A, T, C or G
<400> 188
cnngcaanac anggtcggat tccgntqagg naanaattcc ctnatagggc tcgccccta 60
ttcaccaaac caancngaaa ctcttgcggt caaatctaag ctatnncaca accccactct 120
gnagggtatg cgcccgccc ctgcaatgaa atcaatanca tatttggaga cagagagata 180
qaqaqaqaq qqttcctqqc cttnnctatt ctqctcttac ttqnnaqatn tcaqanataq 240
aaaaacctat cctaggtccn nccaatgatn gcggcttncg aatcccgnng tggccantcc 300
ccggatcgga ctaaatcaaa gaagatcctc cgtcntcctg ttcctccaca ctggagtccc 360
attgtatgca tgggtntttc actggctnat cataccnnag gatctgtcca ccttnaactc 420
ttctctngga antccctncc c
<210> 189
<211> 637
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 5, 24, 36, 45, 58, 113, 119, 147, 193, 196, 227, 330, 347,
387, 447, 450, 458, 460, 487, 489, 502, 518, 526, 535, 538,
546, 558, 560, 613, 622, 633
<223> n = A, T, C or G
<400> 189
agggngtata tacccacttg tacnactcga tcatanacgc gcatntctga atcgcttnct 60
ggccgcgatg tactgtgggc acttaagcac tgagtactgt ttgcgtcatg ccnggtcana 120
agatgctgct qcaaaqqqac tccaacnaaa tacactqtct tcaacaqqaq ttaacacctc 180
acacttggtg ganaanagaa ctcactggtg gtgatgcaca cgactgnatc catcaagtgc 240
gtttgcctgt tgactgctaa ccaaggctct ggcagtacct gcccgggcgg cgctcgaaac 300
caaatctgca aatatcatca cactggcggn cgctcagcat catctanaag gccatcgcct 360
atagtgagtc tatacatcat ggccgcnttt acactcctac tggaaaacct gcgtaccact 420
taatcgcttc acacatcccc tttcgcngtn gcttatancn aaaagcccac gatgcctcca 480
cattgenene tgatggeatg ancecettae gegeatance geggtntgtg taceneangt 540
acceptnetge acceptaenen tetteettet eetetteeee tteeegttee teaceatteg 600
gggccttagg tcnatatctc gnccacccaa atntagg
                                                                   637
<210> 190
<211> 653
<212> DNA
<213> Homo sapiens
<220>
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<221> misc feature
<222> 29, 59, 112, 129, 134, 143, 157, 177, 180, 203, 247, 276,
306, 315, 320, 327, 334, 337, 363, 421, 424, 514, 523, 543,
571, 591, 593, 599, 610, 612, 618, 634, 637, 651, 652
<223> n = A, T, C or G
<400> 190
agggggtata tacccacttg tacgactgna tcatatacgc gcatgtctgg aatcgcttnc 60
gtggctgcca tgtattgaca ctacttctaa gaactacaaa agtgatactg angatacatt 120
acacagaang getnacatte tencagatee teattintea tgatatgtgg acateangan 180
cacgtggata agtgtatcta aanaatggct ttcaaaatat ttccacttta ttaaggtttg 240
acatganatt cataaaatgt cttaatacta tttctnaaaa taacatctaa tcggaaacta 300
tgcctnaact gcacnttttn tgtgtanata atcntanttg tacgcccggc ggcgccaaag 360
conaatotgo gattoctoac otggogoogo toaacatoat otaaaggooa atogootata 420
ntantctata catcctggcc gcgtttacac gtctaatggg aaaccggcqt accacttatc 480
gettgeagea eteceettee caetgggtta tacnaaagee genegatgee teceacatte 540
canctgatgc aatgacccct gttcgcctta ncccgcgqtt tgtqtaccca ntnaccacnt 600
cagegotgen entettentt etectettet geenttnegt teecteacte nng
<210> 191
<211> 663
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 2, 5, 21, 59, 104, 113, 234, 256, 259, 264, 284, 290, 364,
418, 427, 433, 444, 456, 466, 525, 547, 553, 562, 564, 581,
613, 617, 640, 644, 661
<223> n = A, T, C or G
<400> 191
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aaatcatact tccatctgct cactgatgat aattactatg atacatgatc atgtaaacgt 180
atcaatataa caatggaaga tooctotgao tatgcaagoo taattttoca atcnoatgca 240
ctctcatagc tcaaanatnt cacngacatc ctgatgaaac tatnatacan tttccacaca 300
aatcacttcg ctttagatct ctccattatt cttgcttttc ccccctaaca actacaaatc 360
ctcntgggat gggaagaata tatatcatct actaaaaata atatataatc ccctgcanat 420
ttgtggnaaa tcnggtgtct caanagccac aggagnacaa gggggnacca actaggactt 480
ttgtatgett atetetgtae tegegeaeae etaagegatt etgenattet eeetggegge 540
gtcacanete tanaggeeat enenatatga tetataeate ntggegtett tacaetetga 600
cggaaaccgg gtnccantta ccctggacca tcccttcgcn ctgntataca aagcccccga 660
                                                                   663
<210> 192
<211> 361
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 2, 31, 45, 48, 57, 63, 84, 94, 108, 125, 143, 161, 162, 174,
178, 184, 200, 201, 219, 228, 232, 239, 250, 258, 260, 262,
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272, 281, 283, 291, 304, 316, 325, 329, 331, 339, 342, 347,
349, 353
<223> n = A, T, C or G
<400> 192
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cancggcgcc ggcatgtacc ggtnatcatc atcngatgat ggcgctcnaa tgtgggtttt 120
acctnttata cggctgagat canatcgcgt acataacaaa nncaactgat ggtnaatnta 180
aatnoggttg ggttctcccn ntctgttggg gaacttgana ctgagtgnga cntccatana 240
cgtgctattn tcggctancn antcctcagc gnacacctat ngnagtgcgc naattcatcc 300
atgntggcct cgactnttcc aaaangccnt ncgcccacnt gntcgcnana cantctcggc 360
                                                                    361
<210> 193
<211> 314
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 5, 7, 22, 101, 104, 232, 254, 282
<223> n = A, T, C \text{ or } G
<400> 193
agggngnata taccaactgg tncgactcga tcctatacgc gcatttcgga ttcgcttcaa 60
cggcgccggc atgtaccaaa cctcaatccc aaccgtctca nttnqacqqq ctcaqttctq 120
tcacagccac cccacatttc ttttgttttg tctgccactt caaaagaatt ccaaataaga 180
attctgctgc agctccgtac aaggatatgg gcagcacagc acacacagag tngtgctcct 240
cacacttete tggnaatgte tegtgaatat eteaacagte angaagtggg gegttateaa 300
aaacaatcag ggcc
                                                                   314
<210> 194
<211> 550
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 4, 6, 22, 51, 64, 96, 108, 134, 156, 220, 221, 223, 264,
273, 287, 302, 304, 314, 325, 336, 343, 358, 360, 361, 375,
390, 428, 430, 443, 444, 446, 456, 463, 468, 474, 492, 509,
522, 525, 530, 533, 540, 549, 550
<223> n = A, T, C or G
<400> 194
aggngngata tacccactgg tncgactcga tcctatacgc gcatgtcgga ncgctatgtg 60
gtcncgcaag tacctcttct gcagtgatgg tctgtntcct ctatgatnag tgatcgaata 120
atcatcgaat tcancgaaag ttattcgagt gatatntgtg gcttgtagaa tctatgctcc 180
atggtgtgt cactgtcaag attaacacag aatggaagan ncngcactgc ataaaagatg 240
ttgtcaaatt gggtgcgttg atcngatagc tcntcccaag aggtcantgg tgttcaggat 300
tnenacataa gatnttggat cacengaega ceagangata cengtgeaaa etgtgaanen 360
ngtaatctgc ctatncctgc cctctcggan gatccctcgg ggacgacgag atcattctgg 420
aaacagcnan tgatagtcca gtnnangatt gatgancgac ganacgcntg atanatqtct 480
gacgtgagat tnggatgtga atcttcccnt gtgtgacctg cnccntaccn aanggtgcgn 540
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<211> 452
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 1, 2, 8, 34, 41, 50, 55, 56, 93, 99, 113, 123, 132, 143,
183, 214, 237, 244, 245, 255, 272, 293, 299, 301, 312, 335,
345, 346, 359, 363, 371, 379, 384, 387, 406, 412, 413, 420,
422, 434, 441
<223> n = A, T, C or G
<400> 195
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tgctatgtgg tctcggcaat gtacattata acngggcana catataatct acntctgtct 120
ttntctcccc cngagagcgc aancatctcc aaatcgggtt ctgggtcatc caatggtctc 180
cantaatcac acaactcata tatatttatg gaangtgtct gtcatcgtcc ccacgangga 240
agtnncgtcg ctgtntgtct gtcactaggt gngtactctc cagtacttga aanctggtna 300
nggctgtctg tngtactggc cggcgcctc gaaancgaat ctgtnnatat catcacatng 360
cgncgcccga ncatcactna gggncanttc gcctatactg atcgtntgcg anncctgcgn 420
cncttacacg tcgnacggga naccggcctt cc
                                                                   452
<210> 196
<211> 429
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 6, 7, 8, 21, 52, 103, 109, 201, 205, 222, 238, 277, 370,
400, 421
<223> n = A, T, C or G
<400> 196
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tacgtgtctc ggcgatgtac atataacggg gcaacatata atnatacant ctgtcttttt 120
ctcccccgga aacggcaacc atctccaata tcggtctggg tctccaatgg tctccaacta 180
aatcacacaa gtcaaatata nttanggaaa gtgtctgtct cntccccaga aggagtancg 240
ttagctgttg tctgtcatta ggttggtacc tccagtnaca tgaaaactqg tgaqqqtgtc 300
cttgtacaag ctctgcctca ccagatccta tactattagg gggcccacgg ttatctatct 360
taagggtctn aaaacctgga cttcatctgc tccggcggan gaatgtcccg cttacttacg 420
ntgttccac
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<210> 197
<211> 471
<212> DNA
<213> Homo sapiens
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<221> misc feature
<222> 14, 32, 38, 53, 57, 83, 100, 103, 115, 116, 124, 141, 145,
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170, 192, 195, 207, 237, 300, 318, 326, 354, 361, 369, 377,
409, 411, 416, 452, 461
<223> n = A, T, C or G
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teggegeeeg ggeatgteea tenagagege ateatgggan tgnaeteeee atatnntgae 120
caangttcgc gcaaggagcc naganccgat actacctgag ctgtcgtctn gttatacacg 180
tttctggcca angancaact ccacatncaa caagttggtg ttgaaatgtt gtttatnagt 240
ccaccaaccg gccgctctgt cccttcccga tgatccgaag ataagcttcc tgtccggaan 300
acgaacggcg tggtgtgngg acatantgat atgtgcgggt caggaagtac tcgncgcaac 360
negeaagena atetgenata teateacetg geggegeteg agetgeeana ngecentteg 420
cctatatgag tctatacatt cctggccgtc tnttacactc ngacgggaaa c
<210> 198
<211> 643
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 2, 5, 38, 55, 62, 98, 112, 125, 259, 295, 414, 436, 437,
462, 521, 563, 574, 575, 587, 601
<223> n = A, T, C \text{ or } G
<400> 198
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anactatatt gatcctctga tattgaaagt tggtctanca ataaccttta angcaaatca 120
ctcantgagt tttgaccaga agtcaccaca tcatgaatca cagtctatgg caaatgatac 180
cagtqtctct aagtcctatg ctcaaqqtaa qaqcatqcta ttccqtttta catttactqg 240
aatttactgt tcattcatna ttaaaatctc tagttttcat cctcaactgt ctaanaccag 300
tgtgcacaga cttaagactc tgttctcctc attttctcca acagaaacat tctcagtgtc 360
tactgttcta aaagggaatt tccgaggtgg cacttctcgg aatatcgacc ctcnggctct 420
atcaggcgtt acttenngca ctegteattt gggettgtte anttgtetta tetgtecagt 480
cacttcattt taagaaaaca attgatcgct ggtcacatgt nattcattgg cagccggtgt 540
gactgctgag tctcgcgcac acnctagcaa tcgnnattct ccatggngcg tcactctcta 600
naggocatcc cctatatgat ctataatctg gcgtctttac act
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<210> 199
<211> 292
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 1, 6, 21, 39, 59, 87, 129, 165, 186, 223, 225, 231, 256,
257, 261, 268, 272, 279, 287
<223> n = A, T, C or G
<400> 199
neggenggag ttegeagttg nacgaeegat cetataegne geatttetga teegetaent 60
gtccggcgag tctatgctat ttatttntga ttaaatcaat attttctttc tgaatattaa 120
tettatetnt aettttatae tattgaeeta getatatgta ttganetttt tgaaeteeta 180
tcagtntttt tcatgctatc gtatattttc cacttggtac ctntngctga ntcctagata 240
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tcgtaaaaca tctctnnatc ntcacacnga gnccagggnt ctgtatngaa tt
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<211> 275
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<213> Homo sapiens
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<221> misc feature
<222> 24, 67, 75, 96, 135, 155, 162, 166, 173, 181, 192, 197, 204,
225, 230, 244, 245, 254
<223> n = A, T, C or G
<400> 200
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atatatttct ttctnaagta tataaatctt atccncgtat cnttcnatac ctntctgaca 180
ntaagettat angtatntga tetntqttga acteetatea agtgnttten catgetateg 240
tganntcttc cacnttggta ccttttacgc tgaat
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<210> 201
<211> 284
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 3, 4, 5, 16, 23, 94, 116, 121, 135, 141, 168, 171, 173, 185,
196, 200, 212, 223, 224, 238, 239, 269, 271
<223> n = A, T, C or G
<400> 201
cgnnnatcca gtgtanaccg tenttacgcg cattetgate gttcacgcce gcgtetttat 60
atctatctcg actgattcac ctgtcattgt aaanaattcg tgtcagctgt ctaccnctta 120
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tacgnttcca ttgagntacn tccgcggacc cncatcgcaa acnncatgcg gtcagtcnna 240
gcatcctcta tcttaatccg tccttaccnt ntgaacgctc cact
<210> 202
<211> 448
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 93, \overline{1}17, 124, 143, 144, 153, 172, 175, 186, 197, 203, 207,
212, 258, 266, 269, 272, 280, 284, 287, 294, 299, 301, 309,
311, 314, 345, 347, 358, 367, 369, 372, 378, 386, 388, 390,
402, 415, 416, 432, 437, 439, 446
<223> n = A, T, C \text{ or } G
<400> 202
atgatacgca agettgtacg acteggatea tataaeggee geaatgtget ggaatteege 60
ttcgacggac gccgggcatg tacttttata atnctactcc tcagaccttg catctcnacc 120
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gctnggtcca gtttgtaaaa acnnacttcc gtngtgcagc cctggttctg ancantctct 180
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natctcgcna ngcntgaaac gattactctg tcgcgaaccc tctangntga attctgcnaa 360
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gattctaatt anatcentng gteeentt
<210> 203
<211> 321
<212> DNA
<213> Homo sapiens
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<221> misc feature
<222> 7, 18, 29, 48, 52, 71, 88, 91, 104, 109, 131, 143, 196, 201,
213, 248, 254, 261, 287, 291, 298, 303
<223> n = A, T, C \text{ or } G
<400> 203
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aanttcacta ctggcggcgc c
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<210> 204
<211> 369
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 1, 5, 119, 137, 287, 289, 290, 326, 348, 355
<223> n = A, T, C or G
<400> 204
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ccagtcatcg ataactgaat cgcccggtac tgcccgggcg gcgctcnann ccaaatctgc 300
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ctattacaa
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<211> 2996
<212> DNA
<213> Homo sapiens
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<210> 206

<211> 914

<212> PRT

<213> Homo sapiens

<400> 206

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145		_			150		_			155			Gly		160
	_			165					170				Pro	175	
			180					185					Pro 190		
		195					200					205	Ile		
	210					215					220		Phe		
225					230	_			_	235			Lys		240
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			260					265					Thr 270		_
		275					280					285	Tyr		
	290					295					300		Tyr		
305					310					315			Ser		320
				325	_				330				Thr	335	
			340			_	_	345		_		_	Gln 350		_
		355					360					365	Leu		
	370			_		375		-		-	380		Gly	_	
385					390					395			Arg		400
		_		405					410	_		-	Leu	415	
Lys	Gln	Val	Phe 420	His	Glu	Leu	Ser	Gln 425	Gln	Thr	His	Gly	11e 430	Thr	Arg

Le	u Gly	Pro 435	Tyr	Ser	Leu	Asp	Lys 440	Asp	Ser	Leu	Tyr	Leu 445	Asn	Gly	Tyr
As	n Glu 450	Pro	Gly	Pro	Asp	Glu 455	Pro	Pro	Thr	Thr	Pro 460	Lys	Pro	Ala	Thr
Th 46	r Phe 5	Leu	Pro	Pro	Leu 470	Ser	Glu	Ala	Thr	Thr 475	Ala	Met	Gly	Tyr	His 480
	u Lys			485					490					495	
	o Asp		500					505			•		510		
	u Gln	515			_		520			_		525		_	
	e Tyr 530			_		535				_	540		_	_	_
54					550					555			_		560
	y Pro 			565					570	_				575	
	r His		580					585					590		
	u Phe	595		_			600					605	_	_	
	r Gln 610					615					620				
62					630					635				_	640
	l Thr s Leu			645					650					655	
	a Leu		660					665					670		_
	u Asp	675					680					685			
	690 n Leu					695					700				
70					710					715				_	720
	r Asn			725					730	_				735	
	r Gln		740	_			_	745				_	750		
	g Asn	755			-		760					765			
	770 e Arg				_	775	_			_	780				
78					790					795					800
	u Phe			805					810					815	
	u Asp		820					825					830		
	u Pro	835					840					845		_	
J.,	850	20u	****	O-1y	11011	855	1.55	Dea	110	1110	860	TILC	vai	116	Leu

<210> 207 <211> 2627 <212> DNA <213> Homo sapiens

<400> 207

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21 Gen

```
cctgagttct agctcaggtt ttcttactct gaatttagat ctccagaccc ttcctggcca 2340
caattcaaat taaggcaaca aacatatacc ttccatgaag cacacacaga cttttgaaag 2400
caaggacaat gactgcttga attgaggcct tgaggaatga agctttgaag gaaaagaata 2460
ctttgtttcc agcccccttc ccacactctt catgtgttaa ccactgcctt cctggacctt 2520
ggagccacgg tgactgtatt acatgttgtt atagaaaact gattttagag ttctgatcgt 2580
tcaagagaat gattaaatat acatttccta caccaaaaaa aaaaaaa
<210> 208
<211> 282
<212> PRT
<213> Homo sapiens
<400> 208
Met Ala Ser Leu Gly Gln Ile Leu Phe Trp Ser Ile Ile Ser Ile Ile
                                    10
Ile Ile Leu Ala Gly Ala Ile Ala Leu Ile Ile Gly Phe Gly Ile Ser
                                25
Gly Arg His Ser Ile Thr Val Thr Thr Val Ala Ser Ala Gly Asn Ile
                            40
Gly Glu Asp Gly Ile Leu Ser Cys Thr Phe Glu Pro Asp Ile Lys Leu
                        55
Ser Asp Ile Val Ile Gln Trp Leu Lys Glu Gly Val Leu Gly Leu Val
                    70
                                        75
His Glu Phe Lys Glu Gly Lys Asp Glu Leu Ser Glu Gln Asp Glu Met
Phe Arg Gly Arg Thr Ala Val Phe Ala Asp Gln Val Ile Val Gly Asn
            100
                                105
Ala Ser Leu Arg Leu Lys Asn Val Gln Leu Thr Asp Ala Gly Thr Tyr
                            120
Lys Cys Tyr Ile Ile Thr Ser Lys Gly Lys Gly Asn Ala Asn Leu Glu
                        135
                                            140
Tyr Lys Thr Gly Ala Phe Ser Met Pro Glu Val Asn Val Asp Tyr Asn
                    150
                                        155
Ala Ser Ser Glu Thr Leu Arg Cys Glu Ala Pro Arg Trp Phe Pro Gln
                165
                                    170
Pro Thr Val Val Trp Ala Ser Gln Val Asp Gln Gly Ala Asn Phe Ser
                                185
Glu Val Ser Asn Thr Ser Phe Glu Leu Asn Ser Glu Asn Val Thr Met
                            200
Lys Val Val Ser Val Leu Tyr Asn Val Thr Ile Asn Asn Thr Tyr Ser
                        215
                                            220
Cys Met Ile Glu Asn Asp Ile Ala Lys Ala Thr Gly Asp Ile Lys Val
                    230
                                        235
Thr Glu Ser Glu Ile Lys Arg Arg Ser His Leu Gln Leu Leu Asn Ser
                                    250
                245
Lys Ala Ser Leu Cys Val Ser Ser Phe Phe Ala Ile Ser Trp Ala Leu
                                265
                                                     270
Leu Pro Leu Ser Pro Tyr Leu Met Leu Lys
        275
                            280
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<212> PRT

<213> Homo sapiens

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<400> 209
His Ala Ser Ala His Ala Ser Gly Arg Gln Arg Gln Leu His Ser Ala
Ser Thr Gln Ile Arg Trp Glu Pro Ser Pro Ala Met Ala Ser Leu Gly
                                25
Gln Ile Leu Phe Trp Ser Ile Ile Ser Ile Ile Ile Leu Ala Gly
Ala Ile Ala Leu Ile Ile Gly Phe Gly Ile Ser Gly Arg His Ser Ile
                        55
Thr Val Thr Thr Val Ala Ser Ala Gly Asn Ile Gly Glu Asp Gly Ile
                                        75
Leu Ser Cys Thr Phe Glu Pro Asp Ile Lys Leu Ser Asp Ile Val Ile
                                    90
Gln Trp Leu Lys Glu Gly Val Leu Gly Leu Val His Glu Phe Lys Glu
                                105
Gly Lys Asp Glu Leu Ser Glu Gln Asp Glu Met Phe Arg Gly Arg Thr
                            120
Ala Val Phe Ala Asp Gln Val Ile Val Gly Asn Ala Ser Leu Arg Leu
                       135
                                            140
Lys Asn Val Gln Leu Thr Asp Ala Gly Thr Tyr Lys Cys Tyr Ile Ile
                    150
                                        155
Thr Ser Lys Gly Lys Gly Asn Ala Asn Leu Glu Tyr Lys Thr Gly Ala
                165
                                    170
Phe Ser Met Pro Glu Val Asn Val Asp Tyr Asn Ala Ser Ser Glu Thr
                                185
Leu Arg Cys Glu Ala Pro Arg Trp Phe Pro Gln Pro Thr Val Val Trp
                            200
Ala Ser Gln Val Asp Gln Gly Ala Asn Phe Ser Glu Val Ser Asn Thr
                        215
                                            220
Ser Phe Glu Leu Asn Ser Glu Asn Val Thr Met Lys Val Val Ser Val
                    230
                                        235
Leu Tyr Asn Val Thr Ile Asn Asn Thr Tyr Ser Cys Met Ile Glu Asn
                245
                                    250
Asp Ile Ala Lys Ala Thr Gly Asp Ile Lys Val Thr Glu Ser Glu Ile
                                265
Lys Arg Arg Ser His Leu Gln Leu Leu Asn Ser Lys Ala Ser Leu Cys
                            280
Val Ser Ser Phe Phe Ala Ile Ser Trp Ala Leu Leu Pro Leu Ser Pro
                        295
Tyr Leu Met Leu Lys
305
<210> 210
<211> 742
<212> DNA
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<213> Homo sapiens

<220>

<221> misc feature

<222> 341, 447, 451, 458, 535, 573, 650, 681, 683, 725

<223> n = A, T, C or G

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<400> 210
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aggecegace getecetgag agecageaac gggeagtgat gtttagecee gaggaaaaat 120
tacatgcgga atggaaagca ggcgctcagg gtggctcctg ctggaatgag agctggagtg 180
caggeteegt ggtteetggg catgegggtg tggeteagtt eteacettge agatggagtg 240
ggactgttga cccaggccag cctggggact gcctcctcac ctccctgcgc aggctgacct 300
tgtcaccttg cctcttgagc ttgcctctct cctgcccaga ngtccttgga gcaaaatgga 360
ggtcgagagg catttggcac tcacgcctca ccacggacac tqqtqcattc ttgqqtacct 420
cttggcctca atctattgct gggggangga ngactgangc ccattgctgg ggccctgaat 480
geagggactg taaceaccca teccettete agggeacete teceteteea geaenettge 540
tttgctatta atgctaccta atttcctact gangtggtct agaagctcct ccgccattgc 600
ccttgccgcc agcaaatttt tatccctagg gttaagataa cagaaggcan ccttgggcct 660
tgcctgccac attctcaggt ntncactgaa gcacagtatc tatttctcca aaaatagggg 720
ctgtnaactt gttactaccc cc
                                                                 742
<210> 211
<211> 946
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 530, 540, 574, 608, 661, 719, 722, 734, 735, 785, 786, 807,
811, 827, 829, 835, 840, 865, 877, 894, 898, 899, 921, 924,
927, 935
<223> n = A, T, C or G
<400> 211
ggcacgaggc acatcgctgg atttctcatt gccaagctct attaattcat tctttttcat 60
aacctcttat tcttatttca tggatgcaac attttctttg tctctcaggg aataataatt 120
attectaett ttaaaggtet aatttettta ttaetttatt tetetgggag tgagttttte 180
ctaaagggat aatgagatgg aaaatgaaaa aacaaagttg agacatggag ataccttctg 240
gacactattt aaataaaaat atataagaat attacataac aaacaaaaaa qcccaaatcc 360
tcaggttgaa aaggaggaga aaatgtcaag caagacaaaa acagatgaag caaccaaaaa 420
agtgacatag ctggtcacct atattgaaat ttcagaacat gagtgataaa ggactcccag 480
aaaaaaacaa aacccaaact aaaaaacaga aaaaaaggac tttaccaccn aaaacttgan 540
gaatcaggaa gactcagtct ctcattaaga aaantgctat aggggatggg ggcaaggcct 600
tcaaagtngc aggggatacc aataacctct ctgaagtttt ggaacttcat actccaaaat 660
ngaatttttg tttgaatagc cccggttagg ggccaatttt aggacttaga aaggacccng 720
gnaaatcatt cccnncttgc ccccccgaa agaaattaat agaaggggtt tattcccgcc 780
attannaaaa aaggaatcca ggaattnccg ntttttcca gtgttangnt ggggntgtan 840
aaactgaggg cttagcaagg gcggnattaa ccaccenggg teccacecca aaantggnng 900
gggtgggccc caaattcggg nttnttncct ttaangcgtt aaaccc
                                                                946
<210> 212
<211> 610
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 67, 278, 281, 287, 401, 462, 483, 486, 532, 542, 547, 562,
```

. . .

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563, 585, 593
<223> n = A, T, C or G
<400> 212
ggcacgaggt ttctggctgg agcctcggac actggctcac tgcagttggt ggtgtcgaca 60
gtggtangag ggcaaccagt aacgggagct tctcctgcca ggcaggaaga cgagtagaag 120
ggagcggcat gctggaggct ggagcctgag cccctggggc tcgccttgct gtgtttggtg 180
gtgacgtggg acactgcagc tcggccagag tggtaaaaaa tgtcctggtg tacgcttttc 240
tggctttgcc cgtctatctg ctccaagcca ggctgganga ngagganaag gaatcacctg 300
tggtacgctg gagcctgcat gtggcgtgac tctgcaactc gcctcgtgtg actgatggca 360
gccacggaga ctgcagctcg acagggagtg aggcttctca ntggcttgaa agctcagctg 420
actoccacga aatttgccgg aaactcaagg ctgtcagtga cnttcgtggc gccaagactt 480
aancangege gttgeatgea teeggeeagt gtetgtgeea egtgeeetga enceaeettg 540
anataancac coggaacgog cnnogogogo gocgogogoa cacgnooggg cancaacttg 600
gctggcttcc
                                                                   610
<210> 213
<211> 438
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 5
<223> n = A, T, C or G
<400> 213
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aaataaattt ctagattatt tattacataa gcagaccact gaaacattta ttcaaaagta 120
ttccattgag agtcaaaaac atattgatat gattattatt ggtctgttaa agaaaacaaa 180
ataaaaagaa caaactggga attatcaata aacaaatcaa aacttagatg taattataac 240
ctaaagggct cacagggcaa atgtgaagca agcttctgtc tcagagcctg catatggaag 300
acatgtagta cttagctttg gcatctttct ttcctcctct tggttgagtt taagtattaa 360
taaaaggtgg actgagaaaa cctttttta caatcttatg gggtattttt agtggaaacg 420
ttttagaagt aggaatat
                                                                   438
<210> 214
<211> 906
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 14, 302, 324, 432, 444, 461, 498, 528, 561, 585, 617, 645,
660, 669, 699, 701, 760, 781, 824, 835, 849, 863, 872, 875,
881, 888, 893
<223> n = A, T, C \text{ or } G
<400> 214
gccctctaga tcgngcggcc gccctttttt tttttttttt gaaataaatt tctagattat 60
ttattacata agcagaccac tgaaacattt attcaaaagt attccattga gagtcaaaaa 120
catattgata tgattattat tggtctgtta aagaaaacaa aataaaaaga acaaactggg 180
aattatcaat aaacaaatca aaacttagat gtaattataa cctaaagggc tcacagggca 240
aatgtgaagc aagcttctgt ctcagagcct gcatatggaa gacatgtagt acttagcttt 300
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```
gncatctttc tttcctcctc ttgnttgagt ttagtattaa taaaagttgg actgagaaaa 360
ccttttttta caatcttatg ggttattttt agtggaaacg tttagaagta gaatatacat 420
attaaaactg cncagaacaa atgnggtgca tctcaaatgg nggtccattt tcaaaatatg 480
aacacatatg ggcagcantt ttttttttaa aaagtcagaa ggggcctnct catgcccctt 540
tocacttott cactoattgg noottoaaco caagottaac tactntootg acotocaaca 600
tcataaacta gtttccnagc tttgaaactt ttttccaatg agtcntaccg gaatagatgn 660
tcacagaanc ctcttaaaaa ttttggaccc tgcccgggnt ntaaaaaggg tgcaataaac 720
ccaccaacat cttggctggg ggggcagggg ccaaaagaan ttcccaaaac cgtttttgat 780
naaaaaaggg gacttttgaa aaaaaaatta aaatttttgc cagnaaagca tgggnccccc 840
cccttgaana aaccccctgc atnaaaccaa cnttntggga nttttttngg tanggttttt 900
ctggct
                                                                   906
<210> 215
<211> 312
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 188, 294
<223> n = A, T, C or G
<400> 215
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gagetggeeg tgggetgtgg gggttgtagg ggeatettgg taagggaace etegeteagt 120
ccctctctgt tctggtgggg aggacaagga gggccaatag gggccaatag ggaggctgct 180
gctaggangg tttcctaaaa gaacaggtgt agggctaggg ctggttctta gttcaggttg 240
ctctgggcag tgatttatat ccacacacct ttctgcaaag tgtcctaagg aganggcagg 300
gataggagtg tc
<210> 216
<211> 341
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 8, 14, 30, 40, 45, 51, 69, 84, 91, 95, 112, 115, 117, 136,
142, 145, 176, 189, 191, 226, 227, 231, 236, 294, 314, 331,
332, 340
<223> n = A, T, C or G
<400> 216
taagcetnte gaanataatg aatgagtean ggagaggetn atgangaaat necaaacace 60
tgactaatng gtgccacatg attncaatgg nctanacatg ggttagatct cntcnqnqqa 120
atgagcaata acacenttaa antenteaat tgacetagae aetteacaet tgaaanatea 180
tcacttttna ngaccacgaa tgatgcttaa gaatcacatt ttgtgnngaa ntggantctg 240
gctacttaca cgaacagatt cttattcctg ttcatgagcc agtagacccg gaanaagact 300
taagagette tganetttet ettageteea nngettgaan g
<210> 217
<211> 273
<212> DNA
<213> Homo sapiens
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<220>
<221> misc feature
<222> 1, 2, 8, 15, 18, 36, 41, 59, 60, 70, 77, 81, 91, 96, 97,
101, 110, 123, 149, 173, 174, 176, 191, 195, 202, 218, 227,
228, 232, 241, 244, 253, 262, 269
<223> n = A, T, C or G
<400> 217
nnccttcncc ccttnacnga catgaacaaa acagcngtct ngaaatttta ttaacattnn 60
aagggttacn ctccctnctt ntgttttccg ntaaanncta nacctgcgcn ggggcggccg 120
atncagceet atagtgagaa geetaattne ageacaetgg eggeegttae tanngnatee 180
cgactcggta ncaanttttg gngtaaagat ggacatanct ctatccnnga gnactcgtca 240
nccnttctct atnttacatg cnctaacgna gac
                                                                   273
<210> 218
<211> 687
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 56, 59, 74, 123, 138, 169, 177, 183, 187, 205, 227, 229,
237, 238, 245, 253, 329, 334, 372, 456, 474, 480, 516, 558,
563, 564, 584, 593, 599, 611, 636, 639, 670
<223> n = A, T, C or G
<400> 218
ttttcagtgc tgttttgttc tcaattttga tgtcaaaatc tctgggttct tctaanctng 60
ttatgttctt ccancaaatc cttccagttt ttgtaatttt tttctatatc agaagcgcct 120
gancecaatg cecaattnat acaceggtet teteeggaac gettggtena aagggtntag 180
tenattngge teetggaage atetnaaatg etceaggtta etcecangne eetggannae 240
ttcanttgtc tanacgaatc ctggttttcg agcggtcctt gatatcgcaa ggaaatacgg 300
taaaaattat ccaagctctc ttcccactna gganttcgga tctcatcagc cgggtaaagg 360
aaaactcctc angaagtttg ggcttcccct ccggtctacc ggctaatgtt aggaattact 420
tctggctctc ttccgataca tcctctctc aaagtnaaga aggttaaaag aatnttaacn 480
tctcccagtg gctaatggtc aaacaccatc ctcatnagtc agactggggt ttcgaaagga 540
ggatataacc teettgenag ttnnaattaa aagggattaa eeanatggae taneeetene 600
cccgggattt nctctctcac aggagaaggg gtctcnccnc ttggctcatc cgaagcatag 660
gcaaaccccn gggaattttc agaaacc
                                                                   687
<210> 219
<211> 247
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 10, 16, 54, 74, 89, 91, 118, 122, 130, 131, 138, 147, 154,
156, 163, 184, 185, 215, 233, 241
<223> n = A, T, C or G
<400> 219
gggcccttcn cctttnaatc gagagatcca aggttcaagg catgaaatac cagnctataa 60
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aatgtctcaa gacntaaata atacggatng ngatagagag gttgaataat aaatgaanaa 120
anatgaaagn nattatgngg gaatacnaaa aaancngact aanggcggca ctgctgggca 180
tggnnaaatc ggattaattc ctcataggac agccnaaccc cttaaaatct cantttccgt 240
nacccga
<210> 220
<211> 937
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 73, 867
<223> n = A, T, C or G
<400> 220
cgggctcgag tgcggccgca agcttttttt actatagacc aatattaaag tcagttaagt 60
tccaaataca ganttggaaa actaaagtaa aatatttaat gggagaatat ctgcatctga 120
atatgtcaac tgtttgctat ttttcagcta tttaatcctt ctacctgtat ctcagaaaca 180
aatttaaaaa ttaatagatt tgacagcaaa atcattcagc actttactta ctccatcagc 240
aaggtattta tgtagtcatt tccatccatg tggccaaact gaaaatccct aaccaccacc 300
taaatagtaa aaaagtaaat aaaacaatga agttaaattc aggcctcagt aggcccagaa 420
actgtaaaca tttcacatgt aaatcatata caataaacac tgctaaaagt gtaaattcta 480
ctggcttctg agatacaaat acacgagtag aggaaattct aagacatttc tacttqqttt 540
atgcatattt aaaattcagg gaaatatcag ctattctacc tgaaatatgt ttaagaaaaa 600
ttcctatttt ctctaaaaaa aggaataatc agaagacgct acatactatg taagaaaact 660
atacaatgac ccatcattag aagattcaga ataggaaaga aataataatt cactaataaa 720
atatatttat attgactgtc tttttttatg atagcaacaa tgattcagca taaagtaaaa 780
atatatgtat ttccgatgcc attttttatt cagttattct tttgagtttc tgttagaata 840
attatctgcc tatctctgac ttctgancag tcatttatgt ccaattataa gtacatgtgc 900
atattttatt accttaaacg cctctcaaat cctttca
                                                                 937
<210> 221
<211> 353
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 7, 8, 9, 12, 13, 16, 20, 24, 27, 29, 30, 45, 50, 88, 126,
269, 287, 293, 309, 310, 311, 312, 320, 328, 329, 335
<223> n = A, T, C \text{ or } G
<400> 221
ggctatnnna tnnttntaan atcntgncnn ccttgacgct gttantaaan aaaaacaaac 60
gaatateett tttttgetee eeeetgtnea gatactaate teacactaat aettacagta 120
taactnttcc tttcaactac caatattaag ttccaagcca cctgggctta agtatcccaa 180
caacttaggt aatttgttgc taaccaccat actatatgct aattataaca ctctaagccc 240
caaggaattt ttqttcaqat ttcttatant ttccacttat aaatatnatt ccncctctat 300
gggtatatnn nncctctagn cccatatnnc ccacngggat ttgttqaqqq ggc
                                                                 353
<210> 222
<211> 813
```

```
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 638, 661, 664, 694, 709, 717, 722, 726, 743, 750, 752, 759,
760, 766, 784, 790, 799, 800
<223> n = A, T, C or G
<400> 222
teactectea greeatecta acctgaette etggecaetg cagetettee gataagggte 120
agcagtggct tagttattgc taaataataa gcgcacatgc actccctctt tcctgaaaca 180
ttgtccctcc ttggtttctg ttccttccta ggtctcctat cactcctcct tagtcttctg 240
tgcggacttc tgttccttct gccctttaaa agttggtatt ttccaggatt ctgtcctagg 300
cccacttact totcattctg cacqttcttg ttggatgatt ctatcacatc cctaacttct 360
gctgcccagt atgcacttaa aattcccaaa tctgtatatc tggatctgqc ctgtqtctct 420
agcctagaag tgtgctttat cccagaagca cctcaaacac tgcactttgg aaattaagct 480
tactgagtct cgagtctcaa gtcccaaact gacttctttt tctctatttt ggttagtgac 540
aacactattt attcagtcat gcaaaccaga gccctgagaa ccatcttaca ttctctttct 600
coetttactc agttettget tetgttettt etceteence teteetgeet gtgggeetag 660
nggncattaa ctggttggca ctgctttact ttcnattttt ttggctganc taacccnaag 720
ancetnttgt aggggeettt etnteaggen tnacttetnn caaganeece egaaaceaga 780
tccnggggan tgctatggnn tggaaatatt ttg
                                                                 813
<210> 223
<211> 882
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 753, 781, 810, 829, 835, 861, 863, 871, 875, 880, 882
<223> n = A, T, C or G
<400> 223
tcacactact gagaagcagg gaaacccact gaaagggcac gtttcttaac ctcagaatgg 60
ggctactagc ctctaaagca ggaattgcgt tttgtttagt atttccatgg tctgctgcaa 120
ggcgtggcct ttacccaatg gataaatgcg tacaaggctc ttgtgagcag tcaagtttct 180
cgaggtttac agttgaaggg aagtgggatt gttttcctgc gcatttaaat gaaggtaggt 240
gggtgatcac ctttccttaa atgtgtgaag ggatgagata aagagatagg catcttaatt 300
gccactgatg gccttcaggt gaggacaggc atgagccaac tgaagctttg acaattgtgc 360
tgaacccaaa acttcaaaaa caagaaaaaa catagactgg ctgaaatgat ctaagtcaac 420
agagcatggc cagcgcttca tacaaggcag gaccacaggg gaacactgac agcccaggag 480
gcactgagac agaggcagtg ggaagaagtg acagacccca gggactcccc accaacagca 540
gctgctgttg attaggaacc cccagtagac tgtcaggcac ctggtagtgg agaggctacc 600
aaggcccgga ctggagagga gccaaaggaa gaaacagtgc agtgcttaga cccctctggg 660
tetgeeegtg tecatacece tagggagatt ceatteeaga agtggacata tteecacaga 720
gtgcctgggg ctcactcatc acaqctgccc ctncatgaag gcattctcac tgcagcctta 780
ncagggaaca gggtcatttg cattaggcan cttgctgtcc tagaaggcnt cgggngtccc 840
tacactgccc atgttcccaa ngnggttcaa nctcnaaaan tn
                                                                 882
<210> 224
<211> 660
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```
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 77, 104, 116, 157, 169, 198, 253, 273, 325, 327, 330, 336,
350, 357, 361, 400, 434, 443, 478, 511, 555, 582, 596, 613,
622, 641, 651, 660
<223> n = A, T, C or G
<400> 224
gattaaactc aatcattcac ccgggctcga gtgcggccgc aagctttttt ttttttttt 60
ttttttttt ttttggncct ctgggcttgt gcccggaagg ggantgctgg gccacntggg 120
tgtccgtgtt tgattttctg ggacctgccc ccccgtntcc cgccccggnt gccqcgtctc 180
actocccgcc gcggtgcnag gggccccgtg tgccgcgcac ccttccaccc gtgttttgct 240
gtttttttga ctntgggcgt cccaggggtg cancggccgt ggggccctgg tttgctttca 300
cctcttcatc tgctcactgg ccgcnantgn gtcttnttca aacaaacgtn tgaaggncaa 360
nccctgggct cctgtgaacc cggccgtctt tgcggcaaan tctgaggctc cttcgttatt 420
ctggatccgg cctntggtcg gangcgtgct ctgcaggcac tgctcccatt gctggcancc 480
ttttctcccc gtggccgccc ggccgcccat naaaggcgtt gcaaacgccc gccctcgcca 540
gcgcaaagtc aaacnccggt ggcccgcgga ccccccggcg gncgggaaca ccccancagg 600
cgggcaccac aanaagcgcg gncctccggc gtctaaaact nccatgtgqc nccccccgn 660
<210> 225
<211> 438
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
\langle 222 \rangle 62, \overline{171}, 179, 192, 209, 278, 287, 292, 362
<223> n = A, T, C or G
<400> 225
aaaaaaaaag gaaaagtacc cagtgctctc agcttctgag cctcctctac agccctgttg 60
gnttttaaac ctgtgccctg tgtctgtgtc cccacttaat atatatagta cacagctgga 120
gagatggctc agccaggaga gggacccata ggtctgtgaa ttccagagga naggcaggna 180
tttataggtg gntctgtcag gtgaaatcng aggagccaaa gctattgtat gtgcatatgt 240
cageeggget etgtgggagg tggtgtaaga eetatggnat gggacangtg tneaegetgg 300
gatetetgge eggtteegaa aagtgaggat eaggtagtgg gtggetgatt geacaagttt 360
anaacccagg attagggaca cacaggtcag cacctgette teagcateet gaetgggtgt 420
gatgggcata ctcaaggc
                                                                    438
<210> 226
<211> 480
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 416, 422, 451, 466, 470, 479
<223> n = A, T, C or G
```

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<400> 226
aaaattaaaa ccaaaaggat cttagaggtc ctttacttca gtggttctca atgtcagagg 60
atgttatgat acctaatcaa aatctccagg ggaactgttt tgaactcaac agactctctc 120
ctgttctgag agactctggc aaagttggga gagctgccag gtactgtcca catgaccctg 180
actgcccatg attcaattac cttgaatggc ttatccagtc caataccttc atttcttaca 240
tgaggaaact gaagcacgta tcacatagtg atacaatgaa aacttggcct taatcgattt 300
tcagtgctgc cagtacaatg tcttgagcat atcaatttct tccaaccctt gacaacataa 360
ggtacgacca tcaaattttt tatttctgct aatttattag accaaaaaaa aagggnatct 420
cncccattgt tttacaggga tgattttatt ncagaggatt tcatcntggn gctgattcnt 480
<210> 227
<211> 423
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 312, 395
<223> n = A, T, C or G
<400> 227
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cagggatgtt caccttagtc acctgattga ttcctcttca ctttggtcac gtgattcctc 120
caggaggatg ttcaccttgg tegeetgatt cetecaggag gatgttcace ttggtegeet 180
gaccacacag gcatctatca ggctttctca ctgcagccac tatgtcccca taatggatga 240
gtgtcttgtg gagagatagt ccaaatgaca ctgatacctt ttgcctcata cggcctcacc 300
ccccaacaat cnaccactaa tgactgcctc atagcagttt ttccatttcc acagttcctt 360
ctatatqtat taattqtcat tctactataa aqaanacttt ttcttttaaa aaaaaaaaa 420
aag
                                                                   423
<210> 228
<211> 249
<212> DNA
<213> Homo sapiens
<400> 228
cattgtgttg ggctgtagta aaatatgtgt ctggtaagat atgtgaagaa ataaaataaq 60
atcaattaaa totggoocat tgaatgacac attaattgta tattaatatg taatgttaaa 120
gatattagga gatggtggga cattatggca aactaaattt gggaggaggt tgaattgtat 180
aatttatgaa atcctaaagt ctagtacatt aacactctct actgtcaact tttcaaagca 240
gtgagaaac
<210> 229
<211> 436
<212> DNA
<213> Homo sapiens
<400> 229
cattgtgttg ggatgttatc tgaccatcac aatatgattt ataatatgga ggcatgaagt 60
cattlctcat tggggcagga gtgtggcaag ggggaagaag agctttacca attaactcaa 120
gattatttgg tgacatttct cttacctttt aggtgaggag aaagagacag aggatggaga 180
attggtgctt ttagtatgct gatacattaa gctgcctgga agcagatgct aaatcctatt 240
gaaaataatt ttatttgcgt tttgcttagg gcattgttta gcaaaatact acacaaaaag 300
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j.

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tettgacetg tgtgtttgaa atggeagatg tteacagtga ggaetgagee ttggggeaac 360
atcaatcttc acaattctgc acctatttgc tcaataactg gcttggttgg aaaaaaaggg 420
aaaaaaaaa aaaaag
<210> 230
<211> 760
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 13, 14, 27, 66, 105, 194, 227, 239, 520, 537, 563, 597, 604,
646, 675, 686, 704, 716, 751
<223> n = A, T, C or G
<400> 230
cattgtgttg ggnngtggaa ggaaaanttt gaggcaatga agctaaacat aaaagaggaa 60
aagcanatgt tacctcaatg accacaatct acaaagtcca aatanaaaac ctgggagtat 120
gataggatga aactataacc tccagcaaag agcttaacag caattaaaat aaagacaaat 180
ttctgggatg gatnagacaa agtagcatat attacaaagg aaaatanact agtatcatnt 240
acgtttgatt aagtaactgc tttcaaataa ttgaatcata aacaatgatt tctgcggttt 300
taageteatt attttggtte cetggtttet eetaggatge agtatagaat etecatgeet 360
gatgtttatg taccaacaga agctgctgct tctttctttc attatttcct ttttaagtga 420
aagttaatac cttttatatg ttacagagaa gaggcagaaa aagccacact cccactatgc 480
tattaaatgc cctgaggatc aactgaggga tgattatacn catggctgaa tacagtntat 540
tcatttgttt ctttggattg tanataacaa aaggtggtat tctgtaacat cttgtgncaa 600
ttanccaaat qttaaqqcqa aaatqqaatc tttcaaacaa qtqttntaaa caqqttttqa 660
ttttccaaaa tttantatta gaaccntttc aattctggaa gttncccaat ttccangttg 720
tgttttctct tccaattctt ctttcctttg naaattcccc
<210> 231
<211> 692
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 20, 44, 47, 76, 92, 94, 105, 121, 123, 131, 146, 168, 208,
213, 218, 267, 269, 312, 331, 333, 341, 357, 374, 403, 437,
450, 451, 465, 492, 493, 501, 508, 531, 542, 560, 570, 588,
593, 600, 617, 619, 643, 651, 652, 653, 672, 692
<223> n = A, T, C or G
<400> 231
cattgtgttg gggggtgctn tggggagaac acgcttatgt tganatnggg ctccccgaga 60
aagcctcatt gacacnttcg aataaggacc cntngggaaa ttcangtgag ttgtggacat 120
nentagataa nateaaagge ettgangaag teegeetgge acetteengt etgegaggag 180
gttgatacca aatgctaagg ggtccagntg cantgtanta tcgtgagatc agagtgatgg 240
gcaggtgtgg gcatgcgggc cctcaanang aagtgcccag gatgactcag acttatgcct 300
atatecatte antectgtte attattttta nentteeete naaggaeeee caatttnaae 360
catttgttat tcanggctat acttataaaa gtcatttgtt ttnagtctgg gtgatattaa 420
aaccatttgg acgccangca tggtggctcn nggcctataa tcctntccac cttggggaag 480
ccgaagctgg tnnaatccct naaggtcngg aatttgaaaa ccatcctggg ncaacattgg 540
gngaaaccet gtetetaetn caaaaaacan aaaattttet ggggeetngg ttngcaggtn 600
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gcctgaaaat ttcccancnt tactccggga aggccgaatg ccntaaaaaa nnnaccttta 660
accccccga angggcggaa agtttccatt tn
<210> 232
<211> 518
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 10, 13, 35, 38, 60, 66, 71, 77, 90, 105, 117, 118, 151, 154,
157, 164, 177, 181, 193, 230, 235, 238, 243, 247, 250, 255,
267, 273, 277, 279, 284, 293, 309, 320, 322, 334, 357, 370,
372, 373, 380, 386, 388, 398, 402, 410, 446, 467
<223> n = A, T, C or G
<221> misc_feature
<222> 476, 477, 479, 504, 510
<223> n = A, T, C or G
<400> 232
actcaaatgn cenettgaag gteacecaga eteanaangt gteaagettt gggtggggtn 60
gtaatnaata neteggnete etgattagtn etectagete gatenetgge tgagatnngt 120
tcgagcaccc ttcctttgat cccgtcaaac nccnggnaaa agcngcctgc gtagtcncct 180
nageegaate tgnttteeeg acaceeteeg eteggtegge tgeeetggtn aagengente 240
ctnaaanaan aaagngaagt ctccccngtc tcncccnant cctngggaaa acngcctgaa 300
ccaatatgnt ccccaaggn cncccaggg cacntaaccc qttaggaggg ccccccnctg 360
gegttttggn ennaageeen geeeengnaa taaceeenet anaaceaegn aaaaatgeaa 420
agtcccaaag ggtaaagaat ctcccnaccc cccggttccc tcgcaanctt cccctnngna 480
cttgtgttcc gggaaaaccc ttancccgan cctttcca
                                                                 518
<210> 233
<211> 698
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 509, 617, 618, 635, 641, 681, 688, 690
<223> n = A, T, C \text{ or } G
<400> 233
cagttagaat ttggtctgtt tctttattca ataccccaat atatgttcat tagggttata 120
ctgtatacac tacacataac agttttgttt tttgttttgg atattatttg ataataagaa 180
ttttaccaca tcattaaaaa aagtttcccc aagctataat ttttgataat tgcactcttc 240
cactattcaa atgtttattt aactctttct ctcctggagt aggtttacat tccattttag 300
ctatgatact gctttaagag aaattgtttt aagataaatt tccatagaca ggtcaaagga 360
ggtgaatata tgtaagcttt tcgatgcctg ttactgaatc tcattctgga aaacataact 420
gtcaatgccc tctttttctc atggtaaaaa aatacataac aaaatttacc atcttaatcg 480
tttttaaatg ttacagtacg atagtgttna ctgtatgtac cttgtgcaac agattctctg 540
aaaacttttt catttttcaa aatgaaaact ctgtactcat tgaacaggca gcttcccaac 600
ttccccattc ctcccanncc ctacccctgg ttaanagtct nacaaaaccc gggaatttta 660
tgaaatttga aacactttta naatacenen tattaggg
                                                                 698
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<210> 234
<211> 773
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 289, 331, 367, 523, 545, 582, 594, 623, 652, 663, 675, 698,
709, 711, 722, 740, 749, 764
<223> n = A, T, C or G
<400> 234
ggcacgageg cagetttteg aaagetgtaa tttgttttgt atcaaaagte etgcagtata 60
ttagtctcat tgcattttaa agagtttcca agtgatcagt gatggttgtc tgttttttag 120
tattacggtc ttatgtaatg ttcgaaaact agtcagtttg gtgctgtcgt acggggcgga 180
aagatcaggc caggcaaagt actctggccg ccaaagtaaa tgcttaaggc cgccaacgga 240
ttatgtcctg gggttcgatg agggccgtaa ttaggttgag ctggtgtang ctaacctcgc 300
agccatgtcg gagagagatg agagacataa nattttaaag taggggcgta ttttacgaag 360
ttctgancca tttcctttgt tatcggtccc ggcaaaagca actgagataa atgtgttaaa 420
agactcgatg atttttcga cttcagcaac gtactcagcc ttgggttctc gtagtttttc 480
aaaggcagct atttgctgag attcatgaaa agtttgactt ganctgcttg tcaatttctg 540
cageneggge tteaactgtt attgaatttg tttgattaag encaataegt tgenggteac 600
caaggttttc catgttttga ctncacctgg tcgaaccaat ttgaattatg tntttttgcc 660
tgncctgttc ccccnccttt aaatccatct cttttttnga aacctttgng nggttgaatt 720
engeegeeg gtteecaaen tttggttena eettggaaaa aaanatgggt agt
<210> 235
<211> 849
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 581, 612, 643, 647, 716, 717, 758, 775, 778, 786, 821, 825,
<223> n = A, T, C or G
<400> 235
attgggtacg ggccccctc gagcagcctc cactgcaatg ccgctgaatc aagagacttt 60
tcaatacgct ttatcagtga aaatgatgtg atctgaagag tcctatcttg agcactttgc 120
atgacateca aegttaatgt ecacaaegtt ettagetgee caacecettt ateggeaage 180
tccaaaggtg tgtgcaaacg ttctacggcg tcatgaaaaag ctgaaaaatg ctgtgtcaac 240
actgcaccgc tgcgcatctt caaaagcagc gcccttatag tctccgcatt cgaagacgat 300
aacccgcgta gaatagcctc ataatcactt ttgtagaaat caatcagagc tgtgctagga 360
acctttccat ccaaaacata cgactgtgcg accacgtctg caaaagcaga cgtcacatta 420
tgcatatgcc ctcttaccgt cagccgatca tcctcactca tagcgacgcg agaaagctct 480
tgttccagct cgtgcacggt atccaattca gtaatcctac gcaacgccgt ctgaatcgtg 540
ttcataagtt cagttttaaa gctcaaaact tcgtctctta ntttaccccc tqtqactttc 600
aaactgggcg antcttcacc attttattaa tcgtcttttt gangganggc ccagcgttag 660
atetgeateg ceageggaat egitaeteee teceatteet eeteegggta aegeanntag 720
tttctccgaa gccttaaaat tagccgggga aagggaantt atttgcccca acaanggnat 780
cgcggncctg gtggttaaaa ggaactgaaa taaaattaaa ncccncttgg gggaaangcc 840
cgcatactg
                                                                   849
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<210> 236
<211> 310
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 21, 90, 150, 194, 234, 261, 302
<223> n = A, T, C or G
<400> 236
ggggtgggtt gcttccgaaa nccggggccc ggccaacttg ttggcttggg aatattctgg 60
caagaaaatt tccagggcgg cgccaatttn atcaagcccg ggcggcctta aaccgaaaac 120
tetggeaggg teaacceett teatgggegn ttgaaagett gaagegeece aagttactee 180
caagettgtt gegnttgeeg ttgggggegg gggaaaagtt gaaaacaegg gegntttgtt 240
gcccgccccg cgggcggttt nttacgccat cctgggaaaa ctttcagggt tggctgctta 300
cnaaaacggg
<210> 237
<211> 315
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 9, 21, 24, 38, 51, 85, 91, 107, 110, 116, 127, 140, 163,
164, 190, 205, 213, 222, 224, 231, 233, 241, 255, 257, 260,
269, 294, 295, 303, 306, 314
<223> n = A, T, C or G
<400> 237
gcacgagtnt ttgttattta natnttgctt tgtttaangg aagaacacaa naatgccctg 60
ctaaagggat tetgtttggt tgeangetge nageggggaa aaaatenaan tgtatnttge 120
acaacangat tttttagaan tcagaactat gacatgaagt canncagggc actctacgac 180
tgaatttgcn gtgctgcctt cacangctcc ttnctcgctc tntnctggca ncngtgactc 240
ntacacgtcc tgganantan cctccctana aggaacgact ccgacacccc cccnntaccc 300
ctnaangttc atcng
                                                                    315
<210> 238
<211> 510
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 1, 10, 92, 93, 138, 242, 258, 282, 309, 329, 356, 362, 373,
376, 382, 389, 391, 395, 407, 418, 420, 424, 433, 445, 449,
459, 461, 481, 484, 498, 508, 509
<223> n = A, T, C \text{ or } G
<400> 238
ngcacgagtn tttgttattt atatattgct ttgtttaaag gaagaacaca aaaatgccct 60
gctaaaggga ttctgtttgg ttgcaggctg cnngcgggga aaaaatcaaa gtgtattttg 120
```

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cagaaaatga ttttttanaa gtcagaacta tgacatgaag tcaagcaggg cactctagga 180
ctgaatttgc tgtgctgcct tcatatgctc cttgctcgct cttttctggc agctgtgact 240
cncacaggtc atggaganta tcattcccta aaaggaacaa cnccgatatt catctttatc 300
cattaagtnc atctgtccca ttctatgtng tggatgctaa cttttgatca ttgatngtga 360
tnccatggac atntancatc anctttcana ncctnggatc tttgacnagt cttattantn 420
agantecaae tantacgatg eeganttana aatgetggnt ntecaattee taeteaaata 480
nccnacatga acttccantc cccttgcnna
<210> 239
<211> 209
<212> DNA
<213> Homo sapiens
<400> 239
ggtgcttttc ccttctactc gtcttcctgc ctggcaggag aagctcccgc tactggttgc 60
cettetacea etgtegacae caccaactge agtgagecag tgteegagge tecagecaga 120
aacaggtagc agccatgccg gataccaaac gcccacactt aagagcctga aatgacctga 180
cgccacctcc gcatgcttta cctactgag
<210> 240
<211> 610
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 67, 278, 281, 287, 401, 462, 483, 486, 532, 542, 547, 562,
563, 585, 593
<223> n = A, T, C or G
<400> 240
ggcacgaggt ttctggctgg agcctcggac actggctcac tgcagttggt ggtgtcgaca 60
gtggtangag ggcaaccagt aacgggagct tctcctgcca ggcaggaaga cgagtagaag 120
ggagcggcat gctggaggct ggagcctgag cccctggggc tcgccttgct gtgtttggtg 180
gtgacgtggg acactgcagc tcggccagag tggtaaaaaa tgtcctggtg tacgcttttc 240
tggctttgcc cgtctatctg ctccaagcca ggctgganga ngagganaag gaatcacctg 300
tggtacgctg gagcctgcat gtggcgtgac tctgcaactc gcctcgtgtg actgatggca 360
gccacggaga ctgcagctcg acagggagtg aggcttctca ntggcttgaa agctcagctg 420
actoccacga aatttgccgg aaactcaagg ctgtcagtga cnttcgtggc gccaagactt 480
aancangege gttgeatgea teeggeeagt gtetgtgeea egtgeeetga enceaeettg 540
anataancac ccggaacgcg cnncgcgcag gccgcgcgca cacgnccggg cancaacttg 600
gctggcttcc
                                                                   610
<210> 241
<211> 474
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 67, 114, 120, 124, 137, 144, 150, 209, 279, 285, 291, 324,
384, 400, 407, 417, 421, 428, 438, 453, 459
<223> n = A, T, C or G
```

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<400> 241
ggcacgaggt ttctggctgg agcctcggac actggctcac tgcagttggt ggtgtcgaca 60
gtggtangag ggcaaccaat aacgggagct tctcctqcca ggcaggaaga cgantagaan 120
ggancggcat gctggangct ggancctgan cccctggggc tcccttgctg tgtttggtgg 180
tgacgtggga cactgcagct cggccagant ggtaaaaatg tcctggtgta cgcttttctg 240
getttgeeeg tetatetget ceaageeaeg etggaagang agganaagga nteaeetgtg 300
gtacgccgga gcctgcatgt gggngtgact ctgcaactcq cctcqtqtqa ctgatqqcac 360
ccacggacac tgccactcta cagngaatga ggcttctccn tggactngaa agctcanctt 420
nactcccncc aagtttgncg gaactcaagg ctntcactna acttcgtggc gcca
<210> 242
<211> 415
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 1, 8, 9, 34, 71, 141, 162, 195, 262, 309, 321, 364
<223> n = A, T, C \text{ or } G
<400> 242
ngcqqqqnnt tccaccagct cqtqtqcaca aqtnqcqcca cacaaacatq cqcaqqcact 60
gcatgtcatc natgtgcttc gccgtggttc tggaacagcg agtagaagat ggcgttcggg 120
tegegaceaa attegacgte ntggatgete ttgegeaaga angteaegta egggategge 180
ccgatggatc cgctnaagcg ccgaaaggcc ctgacttgca aaccgcggct cacagaaccg 240
gcaccaccgg cqccctccgc cnacaaaagt cqagcgqcct ccqacacaca ctccctcaca 300
tecceptene geaettegge ngtttetage tecqeeaegg ttgteagegg eaeegeggge 360
gccnagctgc cggcggcatc cgttgcacac agcacacacg gatccgctct cgtgc
<210> 243
<211> 841
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 297, 511, 589, 629, 644, 650, 657, 676, 677, 688, 694, 696,
730, 738, 744, 749, 755, 827
<223> n = A, T, C or G
<400> 243
aacgaggtgt cgatgagcgc gaacaatcgc cctccttcat ctctacctga tggtgaactt 60
cgctcctaca gccgagccaa tgaagacgaa tggctgctgc cgaggatggg agtctcacta 120
gagcacgcgg cgctggacaa ctcatcgact tgtacgcttc cggtagctta gcccattcag 180
ctccactgac gacagagacg gagctggcca ctgccatctc gacgcagcgg gacaaggagc 240
agcttcgggc gccgtatgca tcactcgaag agaaccagga gcagccggaa gcaggangcg 300
ctgcacggta caggcacttt cggcgcttca gcggatccat cgggccgatc ccgtacgtca 360
cettettgcg caagaacate caggacgtcg aatteggteg cgaaccgaat gecatettet 420
actogetett ccaggaccog gcgaagcaca ttgatgacat gcagtgcctt gcgcatgttt 480
gtgcggcgct accttggtgc acacgaacga nggcaaccaa cccgccccag gtgccqctct 540
atgcattcct gttctgttcc ggtgtgcatg gccggatgtg gaccgtganc ttggtgaatc 600
ggctggtgca tgaagactta ccgctctcnt caagggcgaa cgcncctcan ttcgganaag 660
gaacaaaacc cccccnnaag aacggcantt gcancntttt cccccgctgc cggctcttct 720
ccattcgggn atteteinte tecnaaaant eegenaaate tiettieggt tieteeeetig 780
```

7.

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tttttatttg cccttcccgc cacttgggtt gttttacatc ctacaancct tttttttctc 840
<210> 244
<211> 761
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 243, 506, 510, 514, 532, 586, 592, 671, 687, 693, 702, 711,
713, 732, 734, 752
<223> n = A, T, C or G
<400> 244
aacgaggtgt cgatgagcgc gaacaatcgc cctccttcat ctctacctga tggtgaactt 60
cgctcctaca gccgagccaa tgaagacgaa gtggctgctg ccgaggatgg gagtctcact 120
agagcacgcg gcgctggaca actcatcgac ttgtacgctt ccggtagctt agcccattca 180
gctccactga cgacagagac ggagctggcc actgccatct cgacgcagcg ggacaaggag 240
canctteggg egeogtatge atcactegaa gagaaceagg ageageegga ageaggagge 300
getgeacggt acaggeactt teggegette ageggateca tegggeeggat ecegtacgte 360
accttcttgc gcaagaaaca tccaggacgt cgaattcggt cgcgacccga atgccatctt 420
ctactcgctc ttccaggacc cggcgaagca catttgatga actgcagtgc ctgcgcatgt 480
ttgttgcggc gctacctggt tgcacncgan cganggcaac aacccgcgcc angttgccgc 540
tctatgcatt ccctgtctgt ccggtgttgc atggccggat gtggancgtg ancttgtgaa 600
tccgctgggt gcatgaagga cttaccgctc tcgtcaaggg cgaacgcgcc atcaattccg 660
gaaaaqqaac naaaaccccc ccccaanqac qqnaatttqc ancttttccc ncncctqccq 720
gctcttctcc antncgggct tctctttctc anaaaattcc c
<210> 245
<211> 710
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 498, 505, 532, 565, 566, 580, 581, 592, 594, 601, 602, 654,
669, 676, 690, 691, 703, 708, 709
<223> n = A, T, C or G
<400> 245
aacgaggtgt cgatgagcgc gaacaatcgc cctccttcat ctctacctga tggtgaactt 60
cgctcctaca gccgagccaa tgaagacgaa gtggctqctg ccgagqatgg gagtctcact 120
agagcacgcg gcgctggaca actcatcgac ttgtacgctt ccggtagctt agcccattca 180
getecactga egacagagae ggagetggee actgecatet egacgeageg ggacaaggag 240
cagcttcggg cgccgtatgc atcactcgaa gagaaccagg agcagccgga agcaggaggc 300
gctgcacggt acaggcactt tcggcgcttc agcggatcca tcgggccgat cccgtacgtc 360
accttettge geaagaacat eeaggacgte aaatteggte gegaeegaat gecatettet 420
actogetett ccaggaaccg gcgaagcaca ttgataacat catgcctgcc catgtttgtt 480
gcggccctcc tggttgcnca cqaancgaag ggcaacaaac ccgcgccagg tngccgctct 540
tatgcattcc ttgtctgttc cggtnntgca tggcccqqan nttgqaaccq tnancttggt 600
nnaatcggct ggtgcattga aggaacttac cgctctcgtc aagggccgaa cgcncccttc 660
agttcggana aaggancgaa aaccccccn naaggaacgg centtgenng
                                                                   710
```

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<210> 246
<211> 704
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 85, 91, 198, 332, 375, 458, 507, 516, 538, 553, 570, 593,
607, 624, 634, 646, 647, 653, 659, 674, 684, 693, 704
<223> n = A, T, C or G
<400> 246
aacqaqqtqt cgatgagcgc gaacaatcgc cctccttcat ctctacctga tggtgaactt 60
egetectaca geegageeaa tgaanaegaa ntggetgetg eegaggatgg gagteteact 120
aaagcacgcg gcgctggaca actcatcgac ttgtacgctt ccggtagctt agcccattca 180
getecaetga egacaganae ggagetggee aetgecatet egacgeageg ggacaaggga 240
gcagcttcgg gcgccgtatg catcactcga agagaacagg agcagccgga agcaggaggc 300
gctgcccggt acaggcactt tcggcgcttc ancggatcca tcgggccgat cccgtacgtc 360
accttettge geaanaacat eeaggaegte gaatteggte gegaeeegaa ttgeeatett 420
ctactcgctc ttccagggac cggcgaagca cattgatnaa attgcattgc ctgcgcatgt 480
ttgtgcgggg cttcctggtg ccccgancga agggcnacaa ccccgcgcca gggtgccnct 540
ctatgcattc ctntctgttc cggtgttgcn tgggcgggat ttgaaccgtg aancttggtg 600
aatccgnttg gtgcattaag aacntaaccg ttcntcgtca ggggcnnacc ggncccttnc 660
                                                                   704
aatttcggaa aaangaacca aaancccccc ccnccaagga aacn
<210> 247
<211> 618
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 513, 541
<223> n = A, T, C or G
<400> 247
ggccgccagt gtgatggata tcgaattcaa cgaggtgtcg atgagcgcga acaatcgccc 60
teetteatet etaeetgatg gtgaaetteg eteetaeage egageeaatg aagaegaagt 120
ggctgctgcc gaggatggga gtctcactag agcacgcggc gctggacaac tcatcgactt 180
gtacgcttcc ggtagcttag cccattcagc tccactgacg acagagacgg agctggccac 240
tgccatctcg acgcagcgg acaaggagca gcttcgggcg ccgtatgcat cactcgaaga 300
gaaccaggaa gcagccggaa gcaggaggcg ctgcacggta caggcacttt cggcgcttca 360
gcggatccat cgggccgatc ccgtacgtca ccttcttgcg caagaacatc caggacgtcg 420
aattoggtog ogacoogaat gocatottot actogotott coaggacoog gogaaagcac 480
attgatgaca tgcagtgcct gcgcatgttt gtngcggcgc tacctggtgc acacgagcga 540
nggcaacaaa cccgcgccca ggtgccgctc tatgcattcc tgttctgtcc gggtgtgcat 600
ggcccggatg tggaaccc
                                                                   618
<210> 248
<211> 622
<212> DNA
<213> Homo sapiens
<220>
```

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<221> misc feature
<222> 276, 355, 356, 382, 387, 421, 426, 462, 474, 480, 483, 486,
498, 506, 527, 535, 553, 559, 579, 590, 616
<223> n = A, T, C or G
<400> 248
gcacgagage ggateegtgt gtgetgtgtg caacggatge egeeggeage ttggegeeeg 60
eggtgeeget gacaacegtg geggagetag aaactgeega agtgegegae ggggatgtga 120
gggagtgtgt gtcggaggcc gctcgacttt tgttggcgga gggcgccggt ggtgccggtt 180
ctgtgagccg cggtttgcaa gtcagggcct ttcggcgctt cagcggatcc atcgggccga 240
tecegtaegt gaeettettg egeaagagea tecaenaegt egaatttggt egegaaeega 300
acgccatctt ctactcgctc ttccagaacc cggcgaagca cattgacaac atgcnntgcc 360
tgcgcatgtt tgtgcggcgc tncctgntgc acacgaccga gggtaccaac ccgcgccagg 420
ntgccnetct acgcattect gtctgcccgg tgtgcgtggc cnggatgtgg accntgagen 480
ggnganteeg etggtgentg aagaenttge egetetegte aaggeenace geeentegeg 540
geggaaaaag gancaaaane eeceegeeaa gaaceggene tgeacegttn tegegeeeet 600
gctgggctct tctccnttac gg
                                                                  622
<210> 249
<211> 517
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 447
<223> n = A, T, C or G
<400> 249
cattcgagct cggtaccggg gatccgattg gtaaagggga tgcggaacag ccagctggtg 60
ttttcggtgc ggccggggca gcccacatcg ctgtggtcgt tggcgtactg gatgcgatgt 120
geegggacaa acgegtttte caccacgatg teatgactge etgtgeegeg caggeecage 180
acateceagt tgteeteaat geggtagtee geettgggea eeagaaaagt cacatgetee 240
aggecaggeg tgecateacg cttgggeage agacegeeta gaaacageea gtegeaatge 300
ttggagccgg tggaaaagct ccagcgaccg ttgaacctga atccgccttc cacgggctcg 360
gccttgccag taggcatata ggtcgaggcg atgcgcacgc cgttatcctt gccccacaca 420
teetgetggg cetggteggg gaaaaanege eagetgeeaa ggggtgaaeg eegaeeaece 480
cgtaaatcca ggccgtggac atgcagccct ttaccaa
                                                                  517
<210> 250
<211> 215
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 1, 2, 4, 190, 193
<223> n = A, T, C or G
<400> 250
nntncattgg geegaegteg catgeteeeg geegeeatgg eegegggatt accgettgtq 60
accgcttgtg accgcttgtg accgcttgtg accgcttgtg accgcttgtg 120
accgcttgtg accgcttgtg accgcttgtg accgcttgtg accgcttgtg 180
accgcttgtn acngggggtg tctgggggac tatga
                                                                  215
```



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<210> 251
<211> 231
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 1, 12, 66, 111, 121, 127, 146, 153, 157, 169, 178, 180, 197,
206, 221, 222
<223> n = A, T, C or G
<400> 251
ngegeeeace tngtgattga tggtegttta etateaagta tgtacatett getetagaea 60
actccnattc agtggaagaa attgggaaag tatcccggat aagtaatagg nattaggtct 120
nccttantgc ttggtgggat attccncaac tgntccngat cggatcagnc tcgtgtcngn 180
gaatgtgctc gatcgtnatt ctactnctga gcttctatcc nnacgtggcc t
<210> 252
<211> 389
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 9, 11, 23, 38, 50, 56, 77, 91, 143, 190, 197, 210, 211, 222,
233, 237, 246, 250, 265, 271, 284, 291, 293, 299, 307, 316,
320, 348, 355, 362, 368, 373, 378, 388
<223> n = A, T, C or G
<400> 252
atgtatcanc nctgttggtg ttncatcttt tgcagtcngt tctaagggcn gataantatc 60
agagatgcta atgcatnttc tgccaggcca ncattggtgg cctatgcgta ctcttcttat 120
cttcctgaag agtcatctct ggnggatgtg ttcccccctc tccacagtgt ttgcaagcgt 180
tacccacgen tgteggngee gggaaggten neacateegg gnagaettee eenegtntga 240
ategintein gaateteegg egienteeet naacetetig actnggaeaa ngneeegint 300
teecetntgt gaaetngtan eegeeeeeet tteeeeeete ageetaaneg ggaangaaga 360
cngggtcnat ctngggcncc acaagaant
                                                                   389
<210> 253
<211> 289
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 1, 8, 9, 27, 36, 63, 78, 81, 89, 92, 99, 114, 117, 126, 131,
147, 159, 161, 163, 184, 194, 200, 203, 208, 210, 224, 232,
237, 250, 251, 260, 269
<223> n = A, T, C or G
<400> 253
nggggccnna tgagcgcgcg taatacnatc actatngggc gaattgggta cgggccccc 60
tenageggee geetttintt nittititint intitititint caaaacacee teeneenigg 120
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atgganacgt nacetttete taaccanate tteacaatne nanteteagg cageegeete 180
aaanccgatg tcangttggn atntcaantn caatcttatt ttgngaatta anctganatt 240
gtggatggtn naccaatcan atacttggna tccgttgaac ccctgtgga
<210> 254
<211> 410
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 68, 280, 283, 284, 299, 300, 304, 342, 354, 368
<223> n = A, T, C \text{ or } G
<400> 254
attgtgttgg gaacttgtag acagctatat caattgcagt gctatttctc tgaggtattg 60
aatctcantt attataattt tgaaatccaa ttggcttgga cttcattatt ttccaactaa 120
aaagatgatt gaaggattta tttgaaatgt gtaaagagta atatagattt tatgcttatg 180
tttccttgaa aaaagtaggt aaaattcttc tggaagtgtt actcctaaaa tacaaatgaa 240
catgtcaaga attacataaa ttctttaaac tatccttaan aannaatggc tctatgtann 300
gagngaccct tacagactat taagaattaa cttgcatggc anagactcat ttanattcat 360
gaaatggntc tcactttctt ggtaagatct ggcttggacg tttttggtaa
                                                                   410
<210> 255
<211> 668
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 90, 217, 220, 258, 476, 479, 538, 547, 554, 566, 579, 621,
623, 635, 650, 666
<223> n = A, T, C or G
<400> 255
tttttttttt ttttcctgtg ccaggcacta taccactgtg ctaggtgcct tctttgcatt 60
actteattte eteataaget ttetgaggan acagaaaget tgaggtteae gtagetagea 120
tctacataaa ttagttgcta aaaacataca atacgtcttc cggcaggctg tcattagtaa 180
ctgatactac tagttgataa tctcataaac ctagcanaan ctaccattta agctgaaaca 240
actgtcaata tcactaanta aaacttaaat ccataaatca actatattct aaaatctgac 300
ttcagttcaa ttaaaaaatc actagttgtt acctacctcc ttctgaaagc cagtacaagt 360
taaatgaaca actcccgagt ttaacaaaca agtggcatct aaaaaaaaga tttaaaaaat 420
aatccactta catatattta aaatggcatt aataaaacaa aatttatcca ataacnaant 480
ggcaaaggaa ggtgtccaat tattacatqt tataaatctt taaattaaac ttttcttnqq 540
tttttcntcc ctanaataaa tacaancett teeeegeena aeeagaaaaa ageaaaaaac 600
aaaacccaaa aactcccagc ncngcttaaa aaacncaaaa aaaataaaan ctctattaaa 660
tqcccnaa
                                                                   668
<210> 256
<211> 487
<212> DNA
<213> Homo sapiens
<220>
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<221> misc feature
\langle 222 \rangle 3, 1\overline{0}, 12, 18, 32, 36, 42, 78, 81, 148, 174, 177, 204, 287,
299, 314, 341, 358, 365, 413, 436, 444, 468, 469, 475, 482,
485
<223> n = A, T, C or G
<400> 256
cgnaaccgtn cntttttnat gtgcgcccgc cncagnacca gngccgctac aggcgaaggc 60
cqqaaqcacq qqaqaqqntt nqqaaaaaaa aqaqtqctta caaaqaqcat attcqcaqaq 120
ttgggatgag tgaaggggac cagaaggngc agcggtaggg acgcgtgaaa ggangcngcg 180
gagaaatgac agcaagaagg gganaagcac acgaaaaggc agtatcctcc tcccccttt 240
tcgaggactg ccgcatcttt gttttctgcc cattccagtc accgaanaag atcccaaana 300
aagaagaaaa gaancagagg tgcacttcgc ttcatatttc nctcgctttc ttttctqnct 360
teacnagtte tgeaggattg ceettgteet etteegagea catetaegea egnatgagge 420
teggeaggte aageenacaa aacnetegea etectetttt tetttgenng tetgngtggt 480
anggngg
<210> 257
<211> 502
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
\langle 222 \rangle 11, \overline{14}, 18, 24, 26, 29, 35, 59, 81, 111, 118, 121, 430, 498
<223> n = A, T, C or G
<400> 257
cctttgaaag nccngctnaa ttcngnganc ccccngatca gcaccaggga gctacaacna 60
aggccggaag caggggattt ngccggaaaa aaaagagtgc ttacaaagag nttatccnca 120
nagatgggat gagtgaaggg gacgagaagg tgcagcggta gggacgcgtg aaaggaggca 180
gcggagaaat gacagcaaga aggggagaag cacacgaaaa ggcagtatcc tcctccccc 240
ttttcgagga ctgccgcatc tttgttttct gcccattcca gtcaccgaaa aagatcccaa 300
agaaagaaga aaagaaacag aggtgcactt cgcttcatat ttcqctcqct ttcttttctg 360
tetteacaag tetgeaggat tgeeettgte etetteegag cacatetaeg caegtatgag 420
gctcggaggn caagccaaaa aaacgcttgc actcctcttt ttctttgcgt gtctgtgtgt 480
atgtggaatt ccgcggcncc gc
                                                                     502
<210> 258
<211> 510
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 6, 15, 18, 27, 28, 33, 41, 324, 446, 447, 449, 483, 498,
506, 509
<223> n = A, T, C or G
<400> 258
actognoact ogathoanta caagagnnta tgnattogaa ngtgoocoog catcagcaco 60
agggagetac aacgaaggee ggaagcaggg gagagggeeg gaaaaaaaaag agtgettaca 120
aagagcatat ccgcagagtt gggatgagtg aaggggacga gaaggtgcag cggtagggac 180
gcgtgaaagg aggcagcgga gaaatgacag caagaagggg agaagcacac gaaaaggcag 240
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tatcetecte ecceetttte gaggaetgee geatetttgt tttetgeeca ttecagteae 300
cgaaaaagat cccaaagaaa gaanaaaaga aacagaggtg cacttcgctt catatttcgc 360
tegetttett ttetgtette caagtetgea ggattgeeet tgteetette egageaeate 420
tacgcacgta tgaagctcgg aggtcnngnc aaaaaaacgc ttgcactcct ctttttcttt 480
gcnagtctgt gtgcatgngg gaaatnctna
<210> 259
<211> 292
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 3, 4, 5
<223> n = A, T, C or G
<400> 259
gannngagte acgaaaagge agtatectee teeeceettt tegaggaetg eegeatettt 60
gttttctgcc cattccagtc accgaaaaag atcccaaaga aagaagaaaa gaaacagagg 120
tgcacttcgc ttcatatttc gctcgctttc ttttctgtct tcacaagtct gcaggattgc 180
ccttgtcctc ttccgagcac atctacgcac gtatgaggct cggaggtcaa gccaaaaaaa 240
cgcttgcact cctcttttc tttgcgtgtc tgtgtgtatg tggaattcct tg
<210> 260
<211> 582
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 307, 313, 315, 321, 409, 420, 449, 452, 487, 492, 505, 536,
546, 547, 561, 564, 572
<223> n = A, T, C \text{ or } G
<400> 260
gcacgaggtt gggtggtact gtgtataata actccagatc cttgaccaag tttggagagt 60
cacttatggc catttgaaac caaatgaagg atcaaaggac taattatttt gaatacctct 120
gagtgttttc cccaagcttg agaagagttt cattcagcta taaaatgctc attgtgcaaa 180
tgagtggttt ccatgctgta taattaaagc attgccttta ataatatttt attaccttta 240
gcttgtcttt ttaatttgag gaaaatccaa acaatttaaa gtaaaacgtg ataaagacag 300
tttttcngga gananaaggg nagatcgcta tgtttattcc acttaatatc tatatcaaat 360
atttgtatca aaagcagact ctcactttaa aaatattctt ctaatggcna gaatcttttn 420
cctagattga gagtcagagc tcacatagna tnactgctgg taaatagaca cttagactat 480
agagetnage tnaagtteea actaneeaac tgeatttetg aatatgettt ttattnaaag 540
gccagnnctt ttgccttttt nccnccctaa tnccttctat tg
                                                                   582
<210> 261
<211> 783
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 137, 425, 445, 489, 500, 552, 554, 559, 570, 584, 587, 599,
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615, 618, 626, 633, 645, 648, 649, 658, 669, 679, 684, 691,
698, 705, 718, 726, 727, 741, 753, 756, 765, 767, 770
<223> n = A, T, C or G
<400> 261
qcacqaqqca aaatacaqaq qqtattttac catqqacaqq caacccattt ttccaqqaca 60
actetttgea geagagaget attetettte ttttgeetta caeteteaac eteaetette 120
gagtgtctgc atcctanttt tccatggcca taagataagg aaccatgagt gttactctag 180
atgaggetgt tteattgtgg gageteatee aggateeaag gtagatteat cagaagggta 240
agtataggag tgggaaccca aatctctact tttattttga ggccttctct cctcaatttt 300
aaattgtaaa atcaaactta aaactgggta tctgatggcc agttaaaaga ctgggtatct 360
gattgccagt taagagatgg tcatttatgc tcaccaccat tctcaagacg caggtgaggt 420
gacangettg etggggaatg etganegaat ecceeaatge etteaggatt etgggaatgg 480
tggctctgnt ttaaactggn tgacttttac aaagagccta cccgtcatgg ggggactggg 540
aagaaaaccc anangcagnt tctggcccan ggttacaccc ccanggntac cttgaaggnt 600
ttttggacat acctnttncc cccctnttac tgnttcatta gggcntcnnc aacccaantt 660
tecaagttnt ggeeettena aaantttttt ntttteentt teeanggaee eeeetggntt 720
cctggnnccc cctttttata nccaaccttg ccnggnattt tttcncnttn aaagggaaat 780
                                                                   783
<210> 262
<211> 741
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 10, 98, 429, 441, 553, 567, 576, 599, 601, 615, 621, 635,
646, 649, 655, 659, 667, 674, 688, 708, 725, 731, 733
<223> n = A, T, C or G
<400> 262
tgaaccctan tgggcccggc cccctcgagt cgacggtatc gataagcttg atatcgaatt 60
cggcacgagt gtatattctg ttattatacc ccagattnaa gtgtatattc ttaggcagta 120
gttctggtta acatccttac tacataaaat ccacttacta tttaagtatt attctaacag 180
gaggtagaat agctgcctta aaaaatgtag tgatcgaatg gcagtttttc tgctgaatgg 240
aaattactga cacaaaattt ggttttggga gacattttcc tccttgttgt tgagttttcc 300
cattcacgga tagggcataa agcttggttt atagttgagg ggtgcaaaag gggaatagga 360
ttgggaaaat acagtgttcc agcaaaggtc tgacaaggta catcttggag aggattccta 420
ttctgctang tggcactgta ngtcttgaaa tactgtgtac tttccagaca aaggatagag 480
aaaaagacct tcactgggtg ggggagaaga aaacccttgt tcctagaaaa atcacaaaaa 540
aggeateett taneetatat teeeagnttt aetggngeat ttgettgatg tgaetgaene 600
ngattatttc ctttnactgg naaaaattcc tgccnctttg gatatnaang ggggnaccng 660
gaaaatnggg ggcnttgggg aaggaaanaa aaaaaattgg agggaccnaa ctttggaaaa 720
tgggntgctt nangccttaa g
<210> 263
<211> 437
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 37, 38, 316, 318, 335, 385, 414, 420, 436, 437
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<223> n = A, T, C or G
<400> 263
ggcacgagag aatgtgttca cagacactat tttatannta tctgatgtgt actgtgtctg 60
gtggatgtga aagccatact tettaaatet gatttgaaaa geaaatetga ttateacage 120
cqcctcqtqc cqaattcqqc acqaqcctqa cctcactacc aaaaaaaaa aaattcaaag 240
tqcctgagqt ttccaggcat tcttagctct atttacttac ttcccacctc aaatqqcctt 300
agaattcaaa ttctgnanaa aatggattgc catanataat ccaatgaaaa tgggtcatat 360
tttgccatta atagaatcac agtcnacaag ggactaatag aattagtcac ttangtatcn 420
ttagatttgg gagacnn
                                                                 437
<210> 264
<211> 706
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 674, 689, 698
<223> n = A, T, C or G
<400> 264
gcacgagcac cccaaggttt taggacaaaa tgggatgagt gaattcatgg cttgacagac 60
tgaacagaaa aatgaggete egtgeteeat atteatgtge atetgeeeet catggtgaca 120
tgctaattgg ttggccggtg cacaagacaa ggaagtgcag gtttcctgtt gctcacacag 180
tgcttcctgt ctgctgtggc aggagccggg aggaagggag cgagccaaga ggggtgctgc 240
ccaccggaaa cgatggcgcg aggccgcaga gctaaatggg ggcctctcca gggagtgctc 300
tgttcacggc tccatcgctg ttagtaagta tcttgtgatt tcggaattta aatgaggttg 360
tgtttaacct gcataacatc tggcttttaa aatctgactt tattttcctt ttatttctgt 420
gcatcggctc aggcacactt agtggtggct taggtgttga agtcaggtta ccaaacagca 480
egecetetet ttatteteag getgegtgtt teattgatte tgaaggteag atggetgtgt 540
tcaagttctg ttagtatatt ggtgtcagaa atgaaaagat gatgtaaccc tttataactt 600
cttaaaggct catatcatgt caggaaatta acctgtacga gttatggaca aatgcccatc 660
ctgatgattt tcanccatga aaatgaatna aagggganaa gggcca
<210> 265
<211> 717
<212> DNA
<213> Homo sapiens
<400> 265
ggcacgagca gcattacggt ttatacacat gtccacaact cagcattgct ttcaaaatag 60
gaacacttta ttagtaaaga ggaagaaatt gcctaaacag actcagtgtc tttcccataa 120
caatcatctg ccaagccgca ggcctaacca ggaaatccca tttccttttg gcgttgtgtc 180
ctccaccaac agatacaacc ctgatgccaa atgttgtatg gtttgtaggt gttgtgagcc 240
aatgagggca tgcctagggc caaaggctgc cctttggaat gagggcaagg tcgtagactc 300
catcaaacaa caaatgcatc ctcctccaaa atcaaatgct caacacatgc agcctttcgt 360
atgcccatct cccctttact cattttcatg gctgaaaatc atcaggatgg gcatttgtcc 420
ataactccta caggttaatt tcctgacatg atatgagcct ttaagaagtt ataaagggtt 480
acatcatctt ttcatttctg acaccaatat actaacagaa cttgaacaca gccatctgac 540
cttcagaatc aatgaaacac gcagcctgag aataaagaga gggcgtgctg tttggtaacc 600
tgacttcaac acctaagcca ccactaagtg tgcctgagcc gatgcacaga aataaaagga 660
aaataaagtc agattttaaa aagccagatg ttatgcaggg taaacacaac ctcatta
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<210> 266
<211> 362
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 291, 296, 302, 308, 315, 323, 325, 335, 351
<223> n = A, T, C or G
<400> 266
ggcacgaggt tagatttaac ttccacagat gactcagcag aggataacta ctaatcagag 60
tacaacatca aaactgtaac cagtataatc actggattat gagcaactca aaatagctcc 120
agtttccaaa gggccataaa ctgcacatat cagtactatg tgcaattaac acataattta 180
ttatgaaaat gtggacatgc caggtaagta aggggattta ggttgacttt ttataatact 240
ttaaatttga aatgccattt ctgtggattg gatgacatct tccaggtgct ntaatnctgg 300
gntacctnct gatanatcct gananaaaga ggtancacca gcgtctatca nacctcaata 360
                                                                   362
<210> 267
<211> 692
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 153, 159, 160, 331, 362, 375, 393, 435, 438, 448, 450, 451,
460, 480, 486, 497, 509, 523, 530, 538, 539, 550, 669
<223> n = A, T, C or G
<400> 267
ggcacgaggt tagatttaac ttccacagat gactcagcag aggataacta ctaatcagag 60
tacaacatca aaactgtaac cagtataatc actggattat gagcaactca aaatagctcc 120
agtttccaaa gggccataac tggccctttt aanactttnn gcaattaaca cataatttat 180
tatgaaaatg tggacatgcc aggtaagtaa ggggatttag gttgactttt tataatactt 240
taaatttgaa atgccatttc tgtggattgg atgacatctt ccaggtgctt taatttggtt 300
tacctcctga tagatcctga cagaaagagg nagcaccagc gtctatcaaa cctcaataca 360
gngtgtgaaa cacangagag cctgcttttg tcnacacggg gaaacacatt gttatcacaa 420
cacacaaaag gcaanctncc aatggggnan ncttacctgn cctctcatat tgggggcaan 480
gaaaangggg cccccanatg gctgagtana tcccaaaaaa ccnccactan tggtcagnnt 540
gcttccccan acagccagat gactgaattt agcccaagct qcagtctcaa aaccagcttt 600
ctgacaatca gtaacaagaa catactggtc tgttgcagtg agctcaagtg ttgggtgttc 660
agtcaaaanc catggatgcc aatcatctcc ca
                                                                   692
<210> 268
<211> 605
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 21, 100, 331, 382, 403, 420, 432, 448, 461, 481, 554, 555,
565, 591, 594, 597, 605
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<223> n = A, T, C or G
<400> 268
cgtgccgaat tcggcacgag ngcacatatc agtactatgt gcaattaaca cataatttat 60
tatgaaaatg tggacatgcc aggtaagtaa ggggatttan gttgactttt tataatactt 120
taaatttgaa atgccatttc tgtggattgg atgacatctt ccaggtgctt taatttggtt 180
tacctcctga tagatcctga cagaaagagg tagcaccagc gtctatcaaa cctcaataca 240
gttgtaaaac acagagagcc tgcttgccta cacatggaga aacattgtta tcacaagaca 300
caqaaqqcaa acttccaatc tqqcatactt ncctqtcctc tcatatttqq qqcaatqaqa 360
atggtggacc agatggcttg antagatgcc aaagaacacc canactgggc agcatgcttn 420
cccagacage engaagactg aaatttante ecagetgeag nettaaacee tttttttgae 480
nttccgtaac cagaccatac ttttttttct gatgcttttc ttaacttcat cttttccaat 540
taaattcatt agtnnaaccc taaanggggc ccqttttccg aaaaattttc nttnttnttt 600
ccccn
<210> 269
<211> 535
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 9, 1\overline{8}5, 205, 213, 216, 220, 237, 251, 298, 304, 307, 331,
352, 447, 497, 500, 529
<223> n = A, T, C or G
<400> 269
qcacqaqqnq caaccccaqq qtqqqqtctc tqqqatqaac ctqqaqacct qaqcttqcac 60
agetteettg gtaaattgag gaggeatgga ceacaagatt gecaagetee tttetateea 120
aacttgatat tgttagattc catgatccag ttcatcacgg ttgatggctg aatctcatgc 180
actanaaaaa ggtaatataa aaganaaaaa tanaangatn ttcaagtgag tataaanacc 240
tttaatetea ntetttetag tteaaagaga eggaacaatg agagatgetg gtteatanag 300
ctgntanatt taacttccac agatgactca ncagaggata actactaatc anagtacaac 360
atcaaaactg taaccagtat aatcactgga ttatgagcaa ctcaaaatag ctccagtttc 420
caaagggcca taaactgcca tatcaantac tatgtgccat taacccataa tttattatga 480
aaatgtggac atgccangtn agtaagggga tttagggtga ctttttatna tactt
                                                                   535
<210> 270
<211> 803
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 677, 687, 768, 772, 786, 790, 793
<223> n = A, T, C or G
<400> 270
gcacgagggc aaccccaggg tggggtctct gggatgaacc tggagacctg agcttgcaca 60
gcttccttgg taaattgagg aggcatggac cacaagattg ccaagctcct ttctatccaa 120
acttgatatt gttagattcc atgatccagt tcatcacggt tgatggctga atctcatgca 180
ctagaaaaag gtaatataaa agaaaaaaat aaaaagatat tcaagtgagt ataaagacct 240
ttaatctcag tctttctagt tcaaagagac ggaacaatga gagatgctgg ttcatagagc 300
tgttagattt aacttccaca gatgactcag cagaggataa ctactaatca gagtacaaca 360
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tcaaaactgt aaccagtata atcactggat tatgagcaac tcaaaatagc tccagtttcc 420
aaagggccat aaactgcaca tatcagtact atgtgcaatt aacacataat ttattatgaa 480
aatgtggaca tgccaggtaa gtaaggggat ttaggttgac tttttataat actttaaatt 540
tgaaatqcca tttctgtgga ttggatgaca tcttccaggt gctttaattt ggtttacctc 600
ctgatagatc ctgacagaaa gaggtagcac cagcgtctat caaacctcaa tacagttgta 660
aaacacagag agcctgnttt gcctacncat ggagaacatt gttatcacaa gacacagaag 720
ggaactteca tetggetaet tacetggett tatttttggg geaatganaa tngggggaee 780
aatggntgan tanatgccaa aaa
                                                                   803
<210> 271
<211> 836
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 623, 682, 718, 768, 781, 785, 787, 794, 804, 811, 816, 822,
<223> n = A, T, C or G
<400> 271
gcacgagggc aaccccaggg tggggtctct gggatgaacc tggagacctg agcttgcaca 60
getteettgg taaattgagg aggeatggae caeaagattg ceaageteet ttetateeaa 120
acttgatatt gttagattcc atgatccagt tcatcacggt tgatggctga atctcatgca 180
ctagaaaaag gtaatataaa agaaaaaaat aaaaagatat tcaagtgagt ataaagacct 240
ttaatctcag tctttctagt tcaaagagac ggaacaatga gagatgctgg ttcatagagc 300
tgttagattt aacttecaca gatgaeteag cagaggataa etaetaatea gagtaeaaca 360
tcaaaactgt aaccagtata atcactggat tatgagcaac tcaaaatagc tccagtttcc 420
aaagggccat aaactgcaca tatcagtact atgtgcaatt aacacataat ttattatgaa 480
aatgtggaca tgccaggtaa gtaaggggat ttaggttgac tttttataat actttaaatt 540
tgaaatgcca tttctgtgga ttggatgaca tcttccaggt gctttaattt ggtttacctc 600
ctgatagatc ctgacagaaa gangtagcac cagcgtctat caaacctcaa tacagttgta 660
aaacacagag agcctgcttt gnctacacat ggagaaacat tgtatcacaa gacacagnaa 720
ggcaacttcc atctgggata ctacctgtct ctctatttgg ggcatganat ggggacaatg 780
ntgananatg caanacacca atgngagetg ntteenacag enatatgatt ntecat
<210> 272
<211> 203
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 19, 42, 46, 53, 62, 63, 74, 84, 89, 109, 112, 119, 120, 128,
133, 139, 144, 148, 176, 187, 194, 197, 201
<223> n = A, T, C or G
<400> 272
ggagaattgg gcccgtcang ggtgcattct gcatcacctg anttcnaaat ctnagtcaat 60
cnncgtacta atantatcaa catnatttna acctgatctc cactgcttng tnattttcnn 120
ttcactgncc ctntcactng aacntctntt cacacagcca ccccccatta tctggntggc 180
                                                                   203
accteeneca aatneenect naa
<210> 273
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<211> 594
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 10, 17, 55, 80, 96, 156, 164, 171, 176, 180, 204, 211, 224,
242, 253, 265, 282, 284, 292, 313, 314, 319, 329, 338, 340,
348, 357, 359, 370, 377, 390, 396, 407, 420, 437, 439, 440,
456, 457, 479, 490, 520, 524, 541, 546, 557, 571, 575
<223> n = A, T, C or G
<400> 273
attegggeen etggatnegt getegagegg eegeegetgt gatggatate tgeanaatte 60
ggcttctgga gagagctttn tttttgatgg ttgcangtac tctcgatgga gttggtgggt 120
gtggttatet etetetggtt gtetttetgt ataaanttet tgenetgaet neetaneten 180
cotcocctg gtccttccct tagngtaaca nctggtaatc cctntcttct ttgctctcct 240
tncttctcct gancgatttc ctctntttgt ccactctcag gnanaaccct gntggtcagt 300
gttcatgact tcnngaagnt cgacccgcna aatagggncn cacggatnat gttgaancng 360
ggaagggagn gtccaanttc tctgttccan aggctnagcc tagaganaat gatgggagan 420
ggtttactga gatcatngnn tcttctcgaa gatatnnttt agggtggtcc cccataagng 480
aatttetean etteaaatet tetaataeat taetgaacan etgneatttg ttaegeeaca 540
nattgnaatt ctccatntct ttttagaaac nattncaagg tcatttattt ccct
<210> 274
<211> 229
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 24, 31, 38, 49, 55, 62, 63, 75, 86, 113, 116, 122, 127, 142,
148, 150, 162, 171, 176, 184, 185, 190, 201, 207, 212, 215,
218, 227
<223> n = A, T, C or G
<400> 274
ctactcactg teeggeeatt tggneetetg natgeatnet caageagene gecantatga 60
tnnatatctg cacanttcag cttctngaga aaactatgtt ttaaacagtt gcntanactt 120
anaatanaaa togagtaagg tntagatnan tototaacga tngaattatt ntacanaggg 180
gtanncgatn accaggagta nctaganttg ancancancc taggtcnga
<210> 275
<211> 651
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 8, 18, 25, 34, 36, 87, 139, 140, 165, 168, 187, 222, 237,
262, 268, 271, 286, 288, 296, 301, 315, 329, 338, 356, 359,
365, 368, 402, 416, 445, 490, 500, 522, 528, 538, 542, 550,
562, 565, 569, 577, 581, 587, 589, 597, 610, 640
<223> n = A, T, C or G
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<400> 275
atatctgntg aatacggntt cctgnaaaaa ggtntnattt agatggttga gtccgactca 60
gcgatgcgac ttggtgggtg tggtcantct cttatggttg agattgttca tgatatcatg 120
ccctgagatg cctggactnn cctcaccgga gatcctagac ggtgntancc cctgagagtc 180
tetetentee tgeteteeta aetteteeta atgateeete enattgteta etgteenatt 240
gaaccettet tgettatgta theaatentt nacggtgtee etgetnantt tttganacga 300
ngctcataat ggacngggga aggatagtnt gaataatntc ctqtataccc acqccnacnt 360
ctacnetntg atetgacaeg gtataetgat ttgtgetgtt enetteaeca tteeanttte 420
taccttccgc tcatatgctc tgtangctac accctctgtg actgctttct cagttacgtg 480
caacaaggtn ttcatatctn gaactettac accattetag anggatenee cetegganaa 540
antttggaan aacaagcaag ancanaatne etetetngtg ntacaenane eggettnegt 600
atcctcgttn aaggaattcc ccgctttcct gggctttaan tctcctaaac t
<210> 276
<211> 392
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
\langle 222 \rangle 18, \overline{24}, 27, 35, 41, 49, 55, 60, 86, 87, 92, 96, 101, 115,
140, 156, 157, 166, 188, 189, 197, 206, 210, 222, 254, 256,
264, 265, 288, 289, 293, 300, 305, 311, 312, 320, 332, 333,
343, 362, 366, 371, 384
<223> n = A, T, C or G
<400> 276
acceccecg aattacgntg geenatntaa aagtneatea ngeeteeang caacntaten 60
tttcattacc acccacactc ctgttnnggg anggangtgg naatccttca ccatnctaat 120
gtatgtggtg ctctcatgcn ggtacgtata atctanncgt cccctnaaat cggatgcttc 180
tgtaatcnnc agtcacnaaa ccacanggan caactgaaac angatttggc taacagccaa 240
tgtctgggcc ctcncnaatc cctnnaatat ctcctacacc tgtagtanna atnaactacn 300
ctacnctatt nnacacacgn tttaggttgt annaccaagc centattgag tgaaategtt 360
tntatngtat naaatgccaa aagntgcggt aa
<210> 277
<211> 212
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 11, 17, 22, 25, 29, 38, 57, 61, 64, 73, 80, 108, 110, 115,
181, 186, 189, 200
<223> n = A, T, C or G
<400> 277
ggtttgcggg natgaanttt gnaanaatna actttagnga taacccaccc accaatncct 60
nctnagtatt tgncaacctn aaaactacag ctctctccag atagactntn ccttnctgat 120
ttcaactctc cttggactgg tcagcctgaa gggtggtaat gactcaccaa cgctactaat 180
nccttnttna ctgtgccttn atttttcgc ct
<210> 278
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<211> 269
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 1, 2, 3, 37, 55, 60, 63, 78, 97, 101, 142, 145, 150, 170,
186, 189, 202, 204, 216, 243, 247, 251, 256, 262, 267
<223> n = A, T, C or G
<400> 278
nnntccatcc taataccact cactateggg etegaanegg eegeeeggge aegtntettn 60
tgngacagga tctgaatnaa gggtggtttg taacttnact naaaattctg aaatgatcct 120
gcatcagaca gggttctccg tntanaatan agtttccctg ttagttatcn agcctgggca 180
ggggangana gattcgagga cntntgaaat gaaggnatta tttaggatgg gtgactcatt 240
ccnaccnttc ncgctnacca gnccganga
<210> 279
<211> 266
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
\langle 222 \rangle 9, 1\overline{2}, 19, 32, 34, 51, 52, 60, 65, 68, 72, 128, 132, 142,
144, 149, 174, 181, 182, 203, 208, 209, 244, 247, 254
<223> n = A, T, C or G
<400> 279
gttggtgant cngtttggng tcttcctggt gntnggtgtt tggtgtgttg nnttgttgtn 60
gggtngtntt tntggagaga gttgtagttc gtgagggttg cagtgtactt actatggagc 120
ctaaggangt gngctaactt anantgatna ctttgctcat actgccctgc cctnaatgcc 180
nngcttgcct caccetggtg ccnaacenna tcgaacacct aacagtctag taggcttctt 240
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<210> 280
<211> 317
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 8, 15, 21, 24, 36, 41, 72, 97, 112, 114, 117, 142, 151, 167,
176, 177, 178, 224, 231, 238, 247, 277, 285, 293, 299, 304
<223> n = A, T, C or G
<400> 280
acactgtnag gtgtntggaa ntgntgtagg catagnettt ntggcacaga gttggageeg 60
tgaggcatag cntgtactta ctatggagcc taaggangga gctaacttat antnatnact 120
ttgctcatac tgccctgctc tnaatgccta ngcttgcctc accctgntgc cttacnnnat 180
cgaacaccta cgcggtctat aggcttcttg ctctatcagg actnetctte nagettente 240
geeteanttg acteactgtg cteggtegtt ctactgngat ccagnegete atnaacetna 300
cttnggacgc aggtcat
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```

ji ya

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<210> 281
<211> 174
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 2, 47, 111, 125, 140, 147, 150, 154, 159
<223> n = A, T, C or G
<400> 281
gnggtcatat tatacatcta aggcatggcc aactccacgc cattatnaat tccatcgtac 60
tgtccgcagt cactacttat aacctagatt aatagtgcct ggccccggac ngtctgtgca 120
atctnccgcc ataccaattn cgatccncan accncgatna cactcctcct tact
<210> 282
<211> 169
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 73, 108, 113, 115, 146, 161
<223> n = A, T, C or G
<400> 282
atcgcagctt gtacgatcgt catataacgc gcatgtgcgg atcgcttcag cgccgcccga 60
ctgtcagaag gangagatct tttttatcac ttgtttgttt gactatanat aanancgact 120
acagcattga tgtgtgtcct caaganttgt ctgggtctga naaagctga
<210> 283
<211> 157
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 3, 5, 36, 50, 67, 80, 87, 130, 133, 139, 145
<223> n = A, T, C or G
<400> 283
ggntntctaa gatcgcagtt gtacgatcgt catatnacgc gcatgtgcgn atcgcttcac 60
gtcgccnggc tgtccaggan atgcatntca acataatgtg cactctatat ggttattgat 120
taatacgagn tangagcana tatcngatac aacacaa
                                                                    157
<210> 284
<211> 133
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 3, 11, 21, 36, 37, 92, 102, 122
<223> n = A, T, C \text{ or } G
```

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<400> 284
ggngtggtgt nagatacgca ngctgggacg aatcgnntca tagtacggcg catgtgttga 60
tcaattctga aaatccatcc cggcgcgctc ancatgcact anagggcaat cgcctatatg 120
antcqtatta caa
<210> 285
<211> 194
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 1, 3, 6, 26, 31, 35, 38, 55, 57, 62, 68, 77, 79, 104, 107,
119, 120, 124, 129, 130, 136, 146, 149, 156, 161, 165, 172,
179, 191
<223> n = A, T, C or G
<400> 285
ntntgngtga tgatacccaa gctggntacc nactngantc caattaccgg ctcantntgc 60
tngaaacngc ttcgatngnc tcctggcatg tacttgaaac aggntanata tctaatagnn 120
tacngtgtnn ttttcnatca tacagnttnt atattncact ncctnccatt cntttctant 180
ctctctctc ntat
                                                                    194
<210> 286
<211> 134
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 6, 7, 29, 41, 66, 73, 86, 93, 108, 128
<223> n = A, T, C or G
<400> 286
gagggnntat gataccaage tggtacgane cegteactat nacggeecag tgtgtggate 60
cgctanctgg tcncgcgatg tctacncaca cgngaactgc ctctcgcnaa gatctcctct 120
cctctccnaa gaga
                                                                    134
<210> 287
<211> 119
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 2, 26, 78, 83, 101
<223> n = A, T, C \text{ or } G
<400> 287
tngggtatat ccagttgtac actggncata tacgcgcatt atgatcgttt cacgcccgga 60
gtacggcate attacganat ggneteatte gtttacettt ntegetggae acaagegte 119
<210> 288
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<211> 170
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> 4, 13, 39, 44, 107, 122, 158, 162
<223> n = A, T, C or G
<400> 288
gggntgagat acncaagttg gtacgagtcg gatcatatna cggncgccat tttctggaat 60
ccgcttacgt ggtcccggcg aagtactttt tcatgccttg caaaatngcg ttactgcact 120
ancttgctta acctatgagt ggggtctttc ataccccntc tntcatggaa
<210> 289
<211> 126
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 19, 24, 46, 74, 84, 86, 109, 121
<223> n = A, T, C or G
<400> 289
ggccaattgg ggcctctana tgcntgctcg aacgggcgcc aatttnatgg atatctccaa 60
aatteggett acentggteg eggnenaagt acttaactea atecatetnt cacteaggat 120
naatgc
                                                                    126
<210> 290
<211> 126
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 19, 24, 46, 74, 84, 86, 109, 121
<223> n = A, T, C or G
<400> 290
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aatteggett acentggteg eggnenaagt acttaactea atceatetnt caeteaggat 120
naatgc
                                                                    126
<210> 291
<211> 27
<212> DNA
<213> Artificial Sequence
<220>
<223> PCR primer
<400> 291
cacatgtgca tccaggggag tcagttc
                                                                    27
```

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<210> 292
<211> 34
<212> DNA
<213> Artificial Sequence
<220>
<223> PCR primer
<400> 292
cgttagaatt catcaattcc tccgaagctc aaac
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<210> 293
<211> 702
<212> DNA
<213> Homo sapiens
<400> 293
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gtcggcagaa gtgacaagct ttccctgcct ggctttgaga acctcacagc aggatataac 120
aaatttetea ggeecaattt tggtggagaa eeegtacaga tagegetgae tetggaeatt 180
gcaagtatct ctagcatttc agagagtaac atggactaca cagccaccat atacctccga 240
cagcgctgga tggaccagcg gctggtgttt gaaggcaaca agagcttcac tctggatgcc 300
cgcctcgtgg agttcctctg ggtgccagat acttacattg tggagtccaa gaagtccttc 360
ctccatgaag tcactgtggg aaacaggctc atccgcctct tctccaatgg cacggtcctg 420
tatgccctca gaatcacgac aactgttgca tgtaacatgg atctgtctaa ataccccatg 480
gacacacaga catgcaagtt gcagctggaa agctggggct atgatggaaa tgatgtggag 540
ttcacctggc tgagaggaa cgactctgtg cgtggactgg aacacctgcg gcttgctcag 600
tacaccatag ageggtattt caccttagte accagatege ageaggagae aggaaattae 660
actagattgg tcttacagtt tgagcttcgg aggaattgat ga
                                                                   702
<210> 294
<211> 232
<212> PRT
<213> Homo sapiens
<400> 294
Met Gln His His His His His His Met Cys Ile Gln Gly Ser Gln
Phe Asn Val Glu Val Gly Arg Ser Asp Lys Leu Ser Leu Pro Gly Phe
                                25
Glu Asn Leu Thr Ala Gly Tyr Asn Lys Phe Leu Arg Pro Asn Phe Gly
Gly Glu Pro Val Gln Ile Ala Leu Thr Leu Asp Ile Ala Ser Ile Ser
                        55
Ser Ile Ser Glu Ser Asn Met Asp Tyr Thr Ala Thr Ile Tyr Leu Arg
                                        75
Gln Arg Trp Met Asp Gln Arg Leu Val Phe Glu Gly Asn Lys Ser Phe
                85
                                    90
Thr Leu Asp Ala Arg Leu Val Glu Phe Leu Trp Val Pro Asp Thr Tyr
                                105
Ile Val Glu Ser Lys Lys Ser Phe Leu His Glu Val Thr Val Gly Asn
                            120
Arg Leu Ile Arg Leu Phe Ser Asn Gly Thr Val Leu Tyr Ala Leu Arg
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135
Ile Thr Thr Val Ala Cys Asn Met Asp Leu Ser Lys Tyr Pro Met
           150
                           155
Asp Thr Gln Thr Cys Lys Leu Gln Leu Glu Ser Trp Gly Tyr Asp Gly
              165
                                  170
Asn Asp Val Glu Phe Thr Trp Leu Arg Gly Asn Asp Ser Val Arg Gly
                               185
Leu Glu His Leu Arg Leu Ala Gln Tyr Thr Ile Glu Arg Tyr Phe Thr
                           200
Leu Val Thr Arg Ser Gln Gln Glu Thr Gly Asn Tyr Thr Arg Leu Val
                      215
Leu Gln Phe Glu Leu Arg Arg Asn
<210> 295
<211> 204
<212> PRT
<213> Homo sapiens
<400> 295
Met Val Cys Gly Gly Phe Ala Cys Ser Lys Asn Cys Leu Cys Ala Leu
                                   10
Asn Leu Leu Tyr Thr Leu Val Ser Leu Leu Ile Gly Ile Ala Ala
                              25
Trp Gly Ile Gly Phe Gly Leu Ile Ser Ser Leu Arg Val Val Gly Val
Val Ile Ala Val Gly Ile Phe Leu Phe Leu Ile Ala Leu Val Gly Leu
                       55
Ile Gly Ala Val Lys His His Gln Val Leu Leu Phe Phe Tyr Met Ile
                   70
                                       75
Ile Leu Leu Val Phe Ile Val Gln Phe Ser Val Ser Cys Ala Cys
               85
                                   90
Leu Ala Leu Asn Gln Glu Gln Gln Gly Gln Leu Leu Glu Val Gly Trp
                               105
Asn Asn Thr Ala Ser Ala Arg Asn Asp Ile Gln Arg Asn Leu Asn Cys
                           120
Cys Gly Phe Arg Ser Val Asn Pro Asn Asp Thr Cys Leu Ala Ser Cys
                       135
                                           140
Val Lys Ser Asp His Ser Cys Ser Pro Cys Ala Pro Ile Ile Gly Glu
                  150
                                      155
Tyr Ala Gly Glu Val Leu Arg Phe Val Gly Gly Ile Gly Leu Phe Phe
               165
                                  170
Ser Phe Thr Glu Ile Leu Gly Val Trp Leu Thr Tyr Arg Tyr Arg Asn
                              185
Gln Lys Asp Pro Arg Ala Asn Pro Ser Ala Phe Leu
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<210> 296

<211> 615

<212> DNA

<213> Homo sapiens

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<400> 296
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ttagtgggtc tgattggagc tgtaaaacat catcaggtgt tgctattttt ttatatgatt 240
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caggagcaac agggtcagct tctggaggtt ggttggaaca atacggcaag tgctcgaaat 360
qacatccaqa qaaatctaaa ctgctgtggg ttccgaagtg ttaacccaaa tgacacctgt 420
ctggctagct gtgttaaaag tgaccactcg tgctcgccat gtgctccaat cataggagaa 480
tatgctggag aggttttgag atttgttggt ggcattggcc tgttcttcag ttttacagag 540
atcctgggtg tttggctgac ctacagatac aggaaccaga aagacccccg cgcgaatcct 600
agtgcattcc tttga
                                                                   615
<210> 297
<211> 1831
<212> DNA
<213> Homo sapiens
<400> 297
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agtcqaattt acqtqcaqct qccqqcaacc acaqqttcca agatqqtttq cqqqqqcttc 180
gcgtgttcca agaactgcct gtgcgccctc aacctgcttt acaccttggt tagtctgctg 240
ctaattggaa ttgctgcgtg gggcattggc ttcgggctga tttccaqtct ccgaqtqqtc 300
ggcgtggtca ttgcagtggg catcttcttg ttcctgattg ctttagtggg tctgattgga 360
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attgttcagt tttctgtatc ttgcgcttgt ttagccctga accaggagca acagggtcag 480
cttctggagg ttggttggaa caatacggca agtgctcgaa atgacatcca gagaaatcta 540
aactgctgtg ggttccgaag tgttaaccca aatqacacct gtctggctag ctgtgttaaa 600
agtgaccact cgtgctcgcc atgtgctcca atcataggag aatatgctgg agaggttttg 660
agatttgttg gtggcattgg cetgttette agttttacag agateetggg tgtttggetg 720
acctacagat acaggaacca gaaagacccc cgcgcgaatc ctagtgcatt cctttgatga 780
gaaaacaagg aagattteet ttegtattat gatettgtte aetttetgta attttetgtt 840
aagctccatt tgccagttta aggaaggaaa cactatctgg aaaagtacct tattgatagt 900
ggaattatat atttttactc tatgtttctc tacatgtttt tttctttccg ttgctgaaaa 960
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<212> DNA

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     <400> 298
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     <223> PCR primer
H
     <400> 299
     ccgaagaatt catcaaaatc tcaaaacctc tcc
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     <211> 258
     <212> DNA
     <213> Homo sapiens
     <400> 300
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     aatctaaact gctgtgggtt ccgaagtgtt aacccaaatg acacctgtct ggctagctgt 180
     gttaaaagtg accactcgtg ctcgccatgt gctccaatca taggagaata tgctggagag 240
     gttttgagat tttgatga
                                                                        258
     <210> 301
     <211> 84
     <212> PRT
     <213> Homo sapiens
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     Gln Glu Gln Gln Gly Gln Leu Leu Glu Val Gly Trp Asn Asn Thr Ala
                                     25
     Ser Ala Arg Asn Asp Ile Gln Arg Asn Leu Asn Cys Cys Gly Phe Arg
                                 40
     Ser Val Asn Pro Asn Asp Thr Cys Leu Ala Ser Cys Val Lys Ser Asp
                             55
     His Ser Cys Ser Pro Cys Ala Pro Ile Ile Gly Glu Tyr Ala Gly Glu
                                              75
     Val Leu Arg Phe
     <210> 302
     <211> 1598
     <212> DNA
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<213> Homo sapiens <400> 302 tctaaggcac agtatcattt tcagtactga caaggtgttt cattttatat ggttgtcata 60 ataaggcaaa ttcattttgt acgctttata ttttcaaacc cagcaagctc taaaagggac 120 ataaaataac ttagaaattg ggaaagacgg gcatgtgtat gatcatgata ttcatcccct 180 qccccagaac aaatgggagg aacacattgc ccaaaactca cgtctggagc tctttcaaca 240 tgtctccctg atgaccctgg acagcatcat gaagtgtgcc ttcagccacc agggcagcat 300 ccagttggac agtaccctgg actcatacct gaaagcagtg ttcaacctta gcaaaatctc 360 caaccagege atgaacaatt ttetacatea caacgacetg gtttteaaat teagetetea 420 aggecaaate ttttctaaat ttaaccaaga actteateag tteacagaga aagtaateea 480 ggaccggaag gagtctctta aggataagct aaaacaagat actactcaga aaaggcgctg 540 ggattttctg gacatacttt tgagtgccaa aagcgaaaac accaaagatt tctctgaagc 600 agatetecag getgaagtga aaaegtteat gtttgeagga catgacacea cateeagtge 660 tatctcctgg atcctttact gcttggcaaa gtaccctgag catcagcaga gatgccgaga 720 tgaaatcagg gaactcctag gggatgggtc ttctattacc tgggaacacc tgagccagat 780 gccttacacc acgatgtgca tcaaggaatg cctccgcctc tacgcaccgg tagtaaacat 840 atcocggtta ctcgacaaac ccatcacctt tccagatgga cgctccttac ctgcaggaat 900 aactgtgttt atcaatattt gggctcttca ccacaacccc tatttctggg aagaccctca 960 ggtctttaac cccttgagat tctccaggga aaattctgaa aaaatacatc cctatgcctt 1020 cataccattc tcagctggat taaggaactg cattgggcag cattttgcca taattgagtg 1080 taaagtggca gtggcattaa ctctgctccg cttcaagctg gctccagacc actcaaggcc 1140 tccccagcct gttcgtcaag ttgtcctcaa gtccaagaat ggaatccatg tgtttgcaaa 1200 aaaagtttgc taattttaag teetttegta taagaattaa tgagacaatt tteetaccaa 1260 aggaagaaca aaaggataaa tataatacaa aatatatgta tatggttgtt tgacaaatta 1320 tataacttag gatacttctg actggttttg acatccatta acagtaattt taatttcttt 1380 gctgtatctg gtgaaaccca caaaaacacc tgaaaaaact caagctgact tccactgcga 1440 agggaaatta ttggtttgtg taactagtgg tagagtggct ttcaagcata gtttgatcaa 1500 aactccactc agtatctgca ttacttttat ctctgcaaat atctgcatga tagctttatt 1560 ctcagttatc tttccccata ataaaaaata tctgccac 1598 <210> 303 <211> 963 <212> DNA <213> Homo sapiens <400> 303 atgaccctgg acagcatcat gaagtgtgcc ttcagccacc agggcagcat ccagttggac 60 agtaccctgg actcatacct gaaagcagtg ttcaacctta gcaaaatctc caaccagcgc 120 atgaacaatt ttctacatca caacgacctg gttttcaaat tcagctctca aggccaaatc 180 ttttctaaat ttaaccaaga acttcatcag ttcacagaga aagtaatcca ggaccggaag 240 gagtctctta aggataagct aaaacaagat actactcaga aaaggcgctg ggattttctg 300 gacatacttt tgagtgccaa aagcgaaaac accaaagatt tetetgaagc agatetecag 360 gctgaagtga aaacgttcat gtttgcagga catgacacca catccagtgc tatctcctgg 420 atcetttact gettggcaaa gtaccetgag catcagcaga gatgeegaga tgaaatcagg 480

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963

:::_:

taa

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<211> 2015
<212> DNA
<213> Homo sapiens
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cagateteca ggetgaagtg aaaacgttea tgtttgeagg acatgacace acateeagtg 1080
ctatctcctg gatcctttac tgcttggcaa agtaccctga gcatcagcag agatgccgag 1140
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Met Pro Tyr Thr Thr Met Cys Ile Lys Glu Cys Leu Arg Leu Tyr Ala 180 185 190

Pro Val Val Asn Ile Ser Arg Leu Leu Asp Lys Pro Ile Thr Phe Pro 195 200 205

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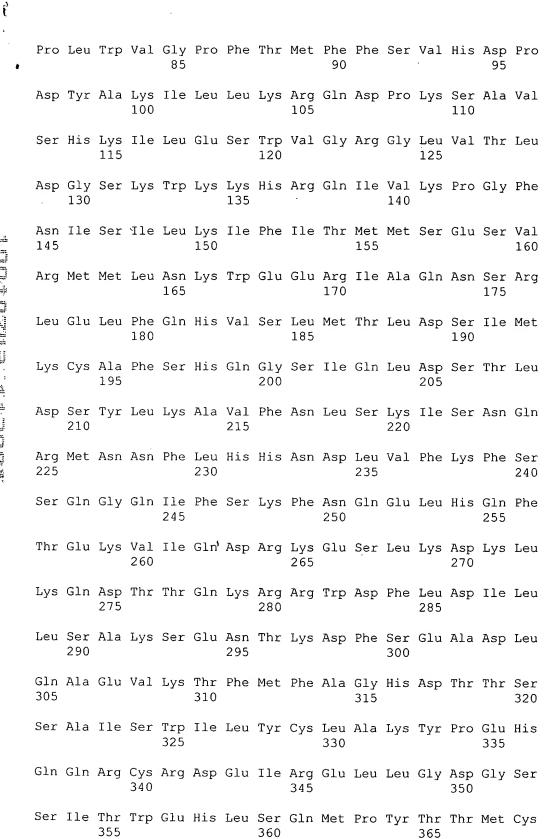
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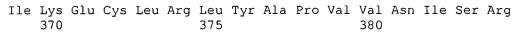
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